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HYDROLOGIC DATA: 1971

Volume III: CENTRAL COASTAL AREA

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DECEMBER 1972

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 130-71

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HYDROLOGIC DATA AREAL COVERAGE OF VOLUMES

EACH VOLUME CONTAINS

- Appendix A: Climatological Data
- Appendix B: Surface Water Measurements
- Appendix C: Ground Water Measurements
- Appendix D: Surface Water Quality
- Appendix E: Ground Water Quality
- Appendix F: Waste Water

THIS VOLUME : 



FOREWORD

The hydrologic data programs of the Department of Water Resources supplement the data collection activities of other agencies and help satisfy needs of these agencies for data on the quality and quantity of water in the State. Bulletin No. 130-71 presents accurate, comprehensive, and timely hydrologic data which provide a more complete knowledge of the factors affecting our environment and are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map on the opposite page.

William R. Gianelli
William R. Gianelli, Director
Department of Water Resources
The Resources Agency
State of California
October 25, 1972

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
1 Inch (in.)	2.54 Centimeters
1 Foot (ft.)	0.3048 Meters
1 Mile (mi.)	1.609 Kilometers
1 Acre	0.405 Hectares
1 Square mile (sq.mi.)	2.590 Square kilometers
1 U. S. gallon (gal.)	3.785 Liters
1 Acre-foot (ac.ft.)	1,233.5 Cubic meters
1 U. S. gallon per minute (gpm)	0.0631 Liters per second
1 Cubic foot per second (cfs)	1.7 Cubic meters per minute
1 Part per million (ppm)	1 Milligram per liter (mg/l)
1 Part per billion (ppb)	1 Microgram per liter (ug/l)
1 Part per trillion (ppt)	1 Nanogram per liter (ng/l)
1 Equivalent part per million (epm)	1 Milliequivalent per liter (me/l)
Degrees Fahrenheit (°F)	$5/9 (°F-32)$ Degrees Celsius (°C)

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U. S. Bureau of Reclamation
U. S. Coast Guard
U. S. Geological Survey
U. S. Soil Conservation Service

State

Department of Public Health
Department of Veterans Affairs
Division of Highways
Division of Forestry
Regional Water Quality Control
Board, Central Coast Region,
North Coast Region, and San
Francisco Bay Region
University of California,
Agricultural Extension Service
Water Resources Control Board

Local

Alameda County Flood Control and
Water Conservation District
Alameda County Water District
City of San Francisco
City of Vallejo
East Bay Municipal Utility
District
Marin County
Mendocino County
Monterey County Flood Control and
Water Conservation District
Napa County
San Benito County
San Luis Obispo County Flood Control
and Water Conservation District
Santa Clara County Flood Control
and Water District
Santa Cruz County
Solano Irrigation District
Sonoma County Flood Control and
Water Conservation District
South Santa Clara Valley Water
Conservation District

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor, State of California
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ABSTRACT

Report contains tables showing data on surface water measurements; ground water levels; surface and ground water quality; and waste water in the Central Coastal Area for the 1970-71 water year. Figures show the location of ground water basins; the average depth to water in wells; the location of surface water measurement and surface water quality stations; and major hydrographic area and subunit boundaries.

Appendix A: CLIMATOLOGICAL DATA

INTRODUCTION

The Department of Water Resources has substantially reduced its collection and publication of climatological data in recent years. California's primary network of precipitation data which was formerly printed in this bulletin is available in "Climatological Data-California", "Hourly Precipitation Data-California", and "Storage Gage Precipitation Data in Western United States". These National Weather Service publications are available from:

Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

The primary network of precipitation stations has been found to be inadequate for operating local water supply and small-scale flood control projects. Local agencies within the area covered by this report have responded to this need by establishing their own supplemental rain gage networks. Some of these agencies are:

U. S. Department of The Army,
Corps of Engineers
San Francisco District

Alameda County Flood Control and
Water Conservation District

Contra Costa County Flood Control
and Water District

Marin Municipal Water District

Marin County Department of
Public Works

Monterey County

San Benito County

San Francisco County

San Luis Obispo County Flood Control
and Water Conservation District

Santa Clara County Flood Control
and Water District

Santa Cruz County Department of
Public Works

Sonoma County Water Agency



Appendix B: SURFACE WATER MEASUREMENTS



INTRODUCTION

This appendix contains surface water data for the period from October 1, 1970, through September 30, 1971. These data consist of the amounts of water imported to the report area; daily mean gage heights; daily maximum and minimum tides; and corrections and revisions to previously published reports of surface water data. Station locations are shown on Figure D-1, sheet 2, page 42.

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract or through local cooperative arrangements with other local or governmental agencies. The data published in the following reports, together with this report, present a comprehensive analysis of water resources for the area:

1. "Water Resources Data for California, Part 1: Surface Water Records, Volume I: Colorado River Basin, Southern Great Basin, and Pacific Slope Basins excluding Central Valley". U. S. Geological Survey.
2. Bulletin No. 120, "Water Conditions in California, Fall Issue". Department of Water Resources.
3. Bulletin No. 157, "Index to Stream Gaging Stations in and Adjacent to California, 1970". Department of Water Resources. This index contains the period of record -- with the number of years missing -- and more information for stations in the report area. The index also identifies the agency from which a particular record may be obtained.

TABLE B-1
SURFACE WATER IMPORTS TO THE CENTRAL COASTAL AREA

Import	1971 Water Year												Total
	October	November	December	January	February	March	April	May	June	July	August	September	
<u>CITY OF VALLEJO FROM CACHE SLOUGH</u> a													
Total acre-feet	1,279	648	1,099	1,179	849	1,115	1,341	1,433	1,519	1,563	1,504	1,480	15,009
Average cubic feet per second	21	11	18	19	15	18	23	23	26	25	24	25	21
Monthly quantities in percent of seasonal	8.5	4.3	7.3	7.9	5.7	7.4	9.0	9.5	10.1	10.4	10.0	9.9	
<u>CONTRA COSTA CANAL</u> b													
Total acre-feet *	7,124	4,663	3,868	3,902	3,616	4,378	4,724	5,974	8,420	10,150	11,078	7,587	75,484
Average cubic feet per second *	116	78	63	63	65	71	79	97	142	165	180	128	104
Monthly quantities in percent of seasonal	9.4	6.2	5.1	5.2	4.8	5.8	6.2	7.9	11.2	13.4	14.7	10.1	
<u>HETCH HETCHY AQUEDUCT</u> c													
Total acre-feet	21,579	15,955	15,653	11,058	10,457	9,485	18,773	22,237	21,858	22,877	22,814	21,999	214,745
Average cubic feet per second	351	268	255	180	188	154	315	362	367	372	371	370	296
Monthly quantities in percent of seasonal	10.0	7.4	7.3	5.1	4.9	4.4	8.8	10.4	10.2	10.7	10.6	10.2	
<u>MOSELUNNE RIVER AQUEDUCT</u> d													
Total acre-feet	18,651	17,875	18,489	16,719	13,318	17,456	17,934	18,598	18,270	19,146	19,118	18,463	214,037
Average cubic feet per second	303	300	301	272	240	284	301	302	307	311	311	310	296
Monthly quantities in percent of seasonal	8.7	8.4	8.6	7.8	6.2	8.2	8.4	8.7	8.5	9.0	8.9	8.6	
<u>POTTER VALLEY POWERHOUSE FROM EEL RIVER</u> e													
Total acre-feet	17,440	16,120	18,890	18,770	17,170	18,850	16,950	18,790	15,010	6,280	4,000	8,070	176,340
Average cubic feet per second	284	271	307	305	309	307	285	306	252	102	65	136	243
Monthly quantities in percent of seasonal	9.9	9.1	10.7	10.6	9.7	10.7	9.6	10.7	8.5	3.6	2.3	4.6	
<u>PUTAH SOUTH CANAL</u> b													
Total acre-feet *	23,222	8,114	1,866	1,989	2,192	5,833	16,430	26,222	32,847	37,462	29,895	30,098	216,170
Average cubic feet per second *	378	136	30	32	39	95	276	426	552	609	486	506	299
Monthly quantities in percent of seasonal	10.7	3.8	0.9	0.9	1.0	2.7	7.6	12.2	15.2	17.3	13.8	13.9	
<u>SOUTH BAY AQUEDUCT</u>													
Total acre-feet	4,388	3,513	5,071	5,228	6,338	7,805	14,919	12,679	11,883	13,441	14,806	7,353	107,424
Average cubic feet per second	71	59	82	85	114	127	251	206	200	219	241	124	148
Monthly quantities in percent of seasonal	4.1	3.3	4.7	4.8	5.9	7.3	13.9	11.8	11.1	12.5	13.8	6.8	

a Data furnished by City of Vallejo.

b Data furnished by U. S. Bureau of Reclamation.

c Data furnished by City of San Francisco.

d Data furnished by East Bay Municipal Utility District.

e Data furnished by U. S. Geological Survey.

* Amounts are total diversion into the canal; an unknown portion of this is imported to the Central Coastal Area.

TABLE B-2
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	E31400	RECTOR RESERVOIR NEAR YOUNTVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	350.05	349.71	361.87	370.34	370.18	370.10	370.13	370.08	368.32	364.45	360.00	355.82	1
2	350.00	349.72	364.60	370.28	370.15	370.10	370.12	370.08	368.21	364.31	359.85	355.69	2
3	349.93	349.93	367.88	370.26	370.14	370.11	370.10	370.09	368.09	364.18	359.74	355.58	3
4	349.90	350.08	370.68	370.25	370.14	370.11	370.09	370.09	367.92	364.02	359.60	355.43	4
5	349.87	350.17	370.43	370.23	370.14	370.10	370.07	370.08	367.80	363.89	359.45	355.29	5
6	349.85	350.37	370.32	370.23	370.14	370.10	370.09	370.07	367.69	363.75	359.31	355.14	6
7	349.78	350.43	370.31	370.23	370.15	370.10	370.10	370.05	367.55	363.60	359.27	355.02	7
8	349.74	350.47	370.32	370.23	370.15	370.09	370.13	370.06	367.43	363.47	359.02	354.92	8
9	349.68	350.49	370.27	370.23	370.15	370.10	370.11	370.05	367.32	363.33	358.87	354.88	9
10	349.65	350.53	370.25	370.22	370.15	370.10	370.11	370.04	367.20	363.20	358.74	354.81	10
11	349.60	350.57	370.24	370.26	370.14	370.11	370.12	370.03	367.06	363.04	358.60	354.78	11
12	349.60	350.58	370.23	370.27	370.14	370.37	370.12	370.03	366.95	362.90	358.50	354.76	12
13	349.57	350.59	370.22	370.26	370.13	370.23	370.13	370.02	366.85	362.78	358.38	354.69	13
14	349.57	350.61	370.21	370.26	370.13	370.22	370.14	369.99	366.73	362.63	358.25	354.64	14
15	349.56	350.63	370.53	370.25	370.13	370.21	370.15	369.97	366.56	362.49	358.12	354.59	15
16	349.53	350.66	370.50	370.32	370.13	370.20	370.15	369.96	366.44	362.33	357.98	354.52	16
17	349.53	350.67	370.42	370.33	370.12	370.16	370.16	369.88	366.26	362.19	357.84	354.48	17
18	349.54	350.69	370.47	370.33	370.12	370.16	370.16	369.78	366.07	362.06	357.73	354.43	18
19	349.53	350.68	370.38	370.31	370.12	370.16	370.12	369.69	365.98	361.91	357.57	354.41	19
20	349.57	350.69	370.75	370.30	370.11	370.16	370.11	369.57	365.91	361.78	357.44	354.35	20
21	349.61	350.74	370.48	370.28	370.12	370.16	370.10	369.43	365.79	361.64	357.30	354.31	21
22	349.62	350.76	370.38	370.28	370.12	370.15	370.11	369.34	365.64	361.47	357.18	354.28	22
23	349.67	350.78	370.34	370.26	370.12	370.15	370.09	369.24	365.53	361.32	357.05	354.25	23
24	349.67	350.85	370.30	370.25	370.12	370.15	370.09	369.13	365.40	361.17	356.92	354.14	24
25	359.69	350.91	370.29	370.24	370.11	370.21	370.09	369.01	365.27	361.02	356.77	354.01	25
26	349.69	350.96	370.26	370.23	370.11	370.34	370.09	368.90	365.12	360.87	356.66	353.88	26
27	349.69	353.20	370.26	370.23	370.11	370.25	370.09	368.81	364.99	360.74	356.54	353.77	27
28	349.68	357.40	370.34	370.22	370.11	370.20	370.09	368.72	364.88	360.59	356.40	353.63	28
29	349.68	359.41	370.38	370.22	370.20	370.20	370.09	368.63	364.73	360.43	356.26	353.55	29
30	349.69	360.77	370.33	370.21	370.14	370.14	370.08	368.52	364.60	360.30	356.13	353.44	30
31	349.71		370.31	370.20		370.14		368.42		360.16	356.00		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-4-70	1100	371.09									

E — ESTIMATED
 NR — NO RECORD
 NF — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
38 26 24	122 20 36	SE 19 7N 4W					MAY 1948-DATE	5-48		0.00	USCGS

Rector Reservoir is located on Rector Creek about 3 miles northeast of Yountville. Gaging station is located on the outlet tower of the reservoir. Elevation of reservoir floor is 250 feet. Spillway elevation is 370 feet.

TABLE B-3
DAILY MAXIMUM AND MINIMUM TIDES
(IN FEET)

WATER YEAR	STATION NUMBER	STATION NAME
1971	B91110	SACRAMENTO RIVER AT COLLINSVILLE

DATE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	DATE
1	5.70 2.14	6.05 1.39	7.30 4.53	5.74 1.54	6.12 2.25	5.47 1.03	5.75 1.30	5.41 1.26	5.17 1.60	5.94 2.52	6.34 1.91	6.50 1.59	1
2	5.97 2.20	6.20 3.58	7.05 5.07	5.78 1.75	6.20 1.97	5.25 0.92	5.34 1.23	5.00 1.25	5.53 2.23	6.07 2.21	6.55 1.86	5.07 1.75	2
3	6.20 2.25	6.21 1.53	6.52 2.21	5.22 1.27	5.99 1.62	5.23 0.93	5.18 1.34	5.20 1.52	5.78 2.17	6.29 1.94	6.70 1.83	6.28 1.57	3
4	6.16 3.47	5.96 1.74	6.00 2.43	5.59 1.64	5.93 1.45	5.55 1.16	5.04 1.40	5.20 1.57	5.90 1.85	6.46 1.78	4.93 1.72	6.30 1.75	4
5	6.31 2.04	5.80 1.67	5.74 1.92	5.94 1.70	5.97 1.41	5.01 0.92	5.25 1.79	5.57 2.05	4.43 1.64	4.80 1.73	6.59 1.63	6.33 2.21	5
6	6.16 2.12	5.51 1.60	6.00 2.11	5.96 1.43	6.08 1.47	4.97 0.92	5.26 1.81	5.93 2.16	6.04 1.55	6.70 1.72	6.64 1.68	6.15 2.27	6
7	5.68 1.71	5.19 1.62	6.45 2.53	6.21 1.39	6.05 1.38	5.23 0.97	5.44 1.96	5.83 1.36	6.31 1.61	6.91 1.78	6.50 1.69	6.09 2.02	7
8	5.72 1.33	5.25 1.55	6.92 2.89	6.41 1.48	5.99 1.44	5.28 1.09	5.34 2.06	6.38 1.48	6.53 1.54	6.78 1.58	6.19 1.69	6.41 2.48	8
9	5.96 1.46	5.62 1.85	7.05 2.38	6.61 1.61	5.56 1.15	5.23 1.23	5.42 1.95	5.88 1.46	6.67 1.61	6.68 1.47	5.80 1.73	6.55 2.12	9
10	5.90 1.85	5.93 1.91	6.83 2.07	6.71 1.81	5.44 1.27	5.13 1.34	5.74 1.79	6.12 1.58	6.71 1.53	6.35 1.36	5.93 1.96	6.50 2.06	10
11	5.47 1.94	6.23 1.84	6.76 1.94	6.76 1.93	5.28 1.50	5.05 1.59	5.64 1.57	6.43 1.70	6.52 1.47	6.10 1.37	6.31 2.54	6.26 1.93	11
12	5.88 2.16	6.21 1.44	6.86 2.03	6.59 2.17	5.04 1.58	5.95 2.27	5.72 1.47	6.41 1.52	6.34 1.42	5.78 1.46	6.41 1.72	6.12 1.72	12
13	6.03 2.35	6.20 1.26	6.92 2.04	6.50 2.03	5.09 1.91	5.40 2.02	5.94 1.64	6.24 1.37	5.91 1.31	5.70 1.62	6.50 2.20	6.19 1.65	13
14	6.26 2.13	6.20 1.29	6.62 1.90	5.94 1.88	5.32 2.35	5.18 1.74	6.06 1.57	6.11 1.29	5.39 1.15	6.10 2.04	6.53 2.02	6.21 1.82	14
15	6.30 1.90	6.28 1.36	6.38 4.06	5.51 3.47	5.48 2.42	5.15 1.41	6.03 1.51	5.94 1.34	5.54 1.33	6.38 2.55	6.51 1.85	5.44 1.92	15
16	6.36 1.78	6.04 3.57	6.56 2.20	5.24 1.82	5.47 2.31	5.25 1.46	5.97 1.66	5.15 0.82	5.96 1.84	6.62 2.30	6.47 1.73	6.23 2.14	16
17	6.34 3.42	5.66 1.32	5.95 2.32	5.24 1.91	5.81 2.28	5.40 1.29	5.93 1.62	4.92 0.83	6.43 2.31	6.58 2.10	5.02 1.72	6.39 2.43	17
18	6.15 1.70	5.37 1.29	5.88 2.21	5.38 2.24	5.37 1.61	5.31 1.21	5.14 1.07	5.34 1.20	6.53 2.07	6.73 1.70	6.43 1.74	6.21 2.44	18
19	6.12 1.58	4.93 1.39	5.76 2.15	5.60 2.57	5.61 1.22	5.32 1.25	5.17 1.36	5.76 1.56	6.61 1.76	5.03 1.70	6.49 1.99	5.88 2.35	19
20	5.75 1.72	5.00 1.41	5.91 2.49	5.83 2.26	5.42 1.01	5.58 1.32	5.43 1.59	6.33 2.16	4.77 1.58	6.85 1.84	6.25 1.84	5.95 2.60	20
21	5.51 1.58	5.28 1.75	6.42 3.46	5.97 2.01	5.67 1.01	5.55 1.23	5.07 1.44	4.69 2.00	6.69 1.54	6.85 1.88	6.01 1.85	5.97 2.38	21
22	5.04 1.84	5.43 1.97	6.07 2.61	6.20 1.96	6.07 1.37	5.65 1.24	5.47 1.71	6.35 1.61	6.76 1.53	6.70 1.84	5.81 1.94	5.90 2.21	22
23	5.14 1.55	5.40 2.08	5.82 2.13	6.46 1.88	6.10 1.23	5.79 1.38	5.78 1.68	6.73 1.72	6.75 1.51	6.51 1.84	5.52 2.04	5.92 3.26	23
24	5.06 1.70	5.78 2.17	6.21 1.93	6.72 1.85	5.98 1.36	5.76 1.53	6.13 1.45	6.86 1.57	6.61 1.51	6.33 1.82	5.66 2.32	6.14 2.18	24
25	5.15 1.74	6.30 2.34	6.19 1.66	6.65 1.68	5.38 0.93	5.74 1.87	6.28 1.34	6.78 1.49	6.33 1.51	6.02 1.90	5.92 2.72	5.98 2.32	25
26	4.94 1.78	6.58 2.12	6.53 1.72	6.51 1.63	4.80 0.98	6.09 2.24	6.63 1.38	6.76 1.40	5.99 1.51	5.61 1.99	6.09 2.72	5.87 1.98	26
27	4.85 1.44	6.73 2.54	6.88 1.79	6.48 1.66	4.86 1.42	6.03 1.92	6.50 1.28	6.53 1.55	5.65 1.56	5.57 2.06	6.00 2.56	5.77 1.83	27
28	5.05 1.36	7.26 2.37	6.94 2.00	6.19 1.68	5.40 1.55	6.12 1.67	6.48 1.28	5.89 1.02	5.38 1.56	5.65 2.29	5.96 2.20	5.68 1.63	28
29	5.56 1.50	7.49 2.52	6.83 1.69	5.70 1.63	5.70 1.63	6.39 1.77	6.11 1.12	5.51 1.21	5.43 1.80	5.71 2.59	6.06 2.04	6.18 1.55	29
30	6.02 1.57	7.53 2.62	6.46 3.51	5.54 2.50	5.54 2.50	6.72 2.02	5.56 1.02	5.26 1.44	5.66 2.30	5.89 1.84	6.22 1.84	5.67 1.87	30
31	5.93 1.38		6.14 1.57	5.79 1.79		6.12 1.33		5.13 1.34		6.14 2.06	6.24 1.72		31
MAXIMUM	6.36	7.53	7.30	6.76	6.20	6.72	6.63	6.86	6.76	6.91	6.70	6.55	MAXIMUM
MINIMUM	1.33	1.26	1.57	1.27	0.93	0.92	1.02	0.82	1.15	1.36	1.63	1.55	MINIMUM

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R., M.O.B. & M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
								FROM	TO		
38 04 25	121 51 18	SW 27 3N 1E	9.2	4-6-1958			JUNE 1929-DATE	1929		0.00	USED
								1929		-3.05	USCGS
									1964	-3.54	USCGS
										-3.00	USCGS

TABLE B-3 (CONT.)
DAILY MAXIMUM AND MINIMUM TIDES
(IN FEET)

WATER YEAR	STATION NUMBER	STATION NAME
1971	E03300	SUISUN BAY AT BENICIA

DATE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	DATE
1	3.10 -1.64	3.39 -2.62	4.50 -1.68	3.02 -2.58	3.46 -1.66	2.86 -2.98	2.90 -3.06	2.54 -2.70	2.37 -1.81	3.03 -0.95	3.38 -1.79	3.55 -2.36	1
2	3.35 -1.69	3.51 -2.46	4.18 -2.30	3.08 -2.82	3.43 -2.09	2.68 -3.25	2.43 -2.88	2.26 -2.46	2.58 -1.09	3.14 -1.43	3.56 -1.94	3.51 -2.31	2
3	3.42 -1.82	3.47 -2.15	3.70 -1.85	2.50 -2.03	3.16 -2.51	2.59 -3.10	2.29 -2.68	2.43 -2.16	2.81 -1.54	3.33 -1.81	3.81 -2.08	3.62 -2.34	3
4	3.36 -1.95	3.29 -2.11	3.13 -2.34	2.87 -2.08	3.14 -2.76	2.71 -2.84	2.21 -2.55	2.48 -2.03	3.05 -2.05	3.59 -2.06	3.79 -2.34	2.82 -2.30	4
5	3.45 -1.73	2.98 0.97	2.89 -0.13	3.20 -3.20	3.19 -2.90	2.25 -3.48	2.36 -2.24	2.81 -1.44	3.21 -2.38	3.85 -2.28	3.92 -2.52	3.67 -1.93	5
6	3.26 0.85	2.70 -2.20	3.14 -2.01	3.23 -2.83	3.30 -2.94	2.29 -3.45	2.59 -2.24	3.11 -1.64	3.48 -2.57	4.05 -2.35	2.31 -2.48	3.45 -1.73	6
7	2.87 -2.06	2.59 -2.16	3.59 -1.32	3.45 -3.00	3.32 -3.02	2.45 -3.07	2.56 -2.07	3.17 -1.93	3.71 -2.66	2.27 -2.39	3.80 -3.07	3.56 -1.92	7
8	2.91 -2.43	2.70 -2.28	4.03 -1.60	3.69 -2.94	3.25 -2.99	2.55 -2.93	2.18 -1.86	1.96 -2.27	2.13 -2.70	4.02 -2.76	3.48 -2.46	3.84 -1.85	8
9	3.13 -2.30	3.09 -1.91	4.16 -2.35	3.95 -2.84	2.86 -3.18	2.53 -2.81	2.65 -2.05	3.08 -2.76	3.84 -2.82	3.92 -2.89	3.09 -2.27	3.88 -1.92	9
10	3.14 -1.96	3.46 -2.01	3.97 -2.70	4.04 -2.59	2.77 -2.94	2.46 -2.63	2.93 -2.33	3.24 -2.76	3.91 -2.90	3.60 -2.99	3.28 -1.92	3.70 0.13	10
11	3.09 -1.93	3.72 -2.24	3.98 -2.87	4.17 -2.42	2.62 -2.62	2.40 -2.28	2.86 -2.63	3.42 -2.73	3.76 -2.87	3.31 -2.82	3.50 -1.22	3.44 -2.03	11
12	3.06 -1.84	3.63 -2.78	4.11 -2.80	3.88 -2.17	2.30 -2.40	3.33 -1.49	2.94 -2.75	3.50 -2.86	3.52 -2.88	3.01 -2.55	3.62 -0.68	3.35 -2.21	12
13	3.39 -1.62	3.67 -3.01	4.16 -2.79	3.73 -2.29	2.46 -1.87	2.71 -1.82	3.12 -2.62	3.45 -3.03	3.03 -2.95	3.10 -2.24	3.68 -1.57	3.40 -2.23	13
14	3.69 -1.92	3.66 -2.92	3.81 -2.79	3.20 -2.33	2.65 -1.31	2.46 -2.05	3.41 -2.63	3.25 -3.03	2.59 -2.93	3.41 -1.56	3.66 -1.83	3.41 -2.06	14
15	3.74 -2.25	3.62 -2.81	3.54 -2.20	2.78 -2.21	2.71 -1.35	2.42 -2.54	3.10 -2.77	3.09 -2.92	2.92 -2.52	3.67 -1.33	3.62 -2.07	3.42 -1.95	15
16	3.77 -2.42	3.31 -2.72	3.72 -2.06	2.54 -1.81	2.71 -1.24	2.48 -2.49	3.04 -2.53	2.34 -3.55	3.34 -1.71	3.81 -1.65	3.63 -2.31	3.41 -1.81	16
17	3.72 -2.43	2.93 -2.65	3.07 -1.94	2.46 -1.20	2.92 -1.43	2.56 -2.55	3.05 -2.47	2.14 -3.23	3.75 -1.44	3.80 -1.98	3.61 -2.33	2.95 -1.56	17
18	3.49 -2.43	2.59 -2.47	3.17 -1.53	2.53 -0.78	2.49 -2.07	2.48 -2.56	2.27 -2.94	2.61 -2.69	3.76 -1.84	3.91 -2.32	3.65 -2.32	3.26 -1.47	18
19	3.27 -2.16	2.21 0.56	2.85 -1.01	2.67 -0.97	2.57 -2.61	2.44 -2.48	2.33 -2.66	3.11 -2.26	3.89 -2.30	4.02 -2.53	2.43 -2.18	3.08 -1.47	19
20	2.93 0.98	2.28 -2.21	2.95 0.63	2.86 -1.58	2.56 -3.05	2.64 -2.49	2.64 -2.69	3.53 -1.79	3.97 -2.69	4.04 -2.48	3.45 -2.22	3.17 -1.19	20
21	2.68 -2.21	2.57 -1.72	3.50 -0.16	2.96 -2.11	2.95 -3.24	2.63 -2.80	2.76 -2.80	3.74 -2.14	4.02 -2.90	2.37 -2.47	3.24 -2.12	3.21 -1.47	21
22	2.31 -1.72	2.74 -1.38	3.13 -1.19	3.21 -2.48	3.30 -3.00	2.76 -2.93	3.15 -2.42	4.05 -2.61	2.19 -2.99	3.85 -2.52	3.00 -1.95	3.19 -1.68	22
23	2.45 -2.04	2.69 -1.45	2.97 -1.85	3.53 -2.83	3.47 -3.17	3.03 -2.85	3.44 -2.54	2.29 -2.73	3.97 -2.95	3.66 -2.44	2.78 -1.74	3.08 -1.72	23
24	2.38 -1.97	3.09 -1.53	3.28 -2.33	3.80 -3.01	3.44 -3.02	3.06 -2.68	2.12 -3.07	4.09 -3.02	3.88 -2.85	3.45 -2.19	2.92 -1.32	3.26 -1.50	24
25	2.49 -1.91	3.62 -1.51	3.45 -2.75	3.80 -3.29	2.77 -3.50	3.14 -2.15	3.66 -3.19	4.10 -3.09	3.55 -2.76	3.03 -2.13	3.09 -0.99	3.16 -1.75	25
26	2.38 -1.86	3.70 -1.88	3.84 -2.82	3.74 -3.30	2.32 -3.32	3.56 -1.88	4.04 -3.15	3.99 -3.09	3.17 -2.56	2.63 -1.93	3.22 -1.17	2.92 1.05	26
27	2.33 -2.27	4.05 -1.35	4.14 -2.87	3.79 -3.23	2.34 -2.68	3.35 -2.38	3.86 -3.31	3.81 -2.88	2.86 -2.33	2.75 -1.56	3.02 0.16	2.65 -1.91	27
28	2.50 -2.44	4.63 -1.74	4.24 -2.61	3.52 -3.03	2.85 -2.64	3.44 -2.81	3.69 -3.18	3.21 -3.21	2.59 -2.17	2.78 -1.06	2.90 -1.45	2.75 -2.11	28
29	2.99 -2.34	4.83 -1.77	4.16 -3.06	3.06 -2.89	3.68 -2.72	3.25 -3.18	2.76 -2.83	2.76 -1.63	2.67 -0.90	2.79 -0.90	3.02 -1.67	3.30 -2.28	29
30	3.42 -2.31	4.82 -1.81	3.78 -3.14	2.97 -2.43	3.85 -2.56	2.79 -3.14	2.38 -2.63	2.38 -0.96	2.82 -1.33	2.90 -1.33	3.26 -1.90	2.87 -2.05	30
31	3.29 -2.58	3.41 -3.05	3.19 -3.05	3.19 -1.56	3.27 -3.21	3.27 -3.21	3.27 -3.21	2.30 -2.29	3.32 -1.50	3.14 -2.06	3.32 -2.06		31
MAXIMUM	3.77	4.83	4.50	4.17	3.47	3.85	4.04	4.10	4.02	4.05	3.92	3.88	MAXIMUM
MINIMUM	-2.58	-3.01	-3.14	-3.30	-3.50	-3.48	-3.31	-3.55	-2.99	-2.99	-2.55	-2.54	MINIMUM

LOCATION				MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T. & R., M.O.B. & M.		CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
									FROM	TO			
38 02 27	122 08 04	SW 6	2N 2W		5.7	4-6-1958			JUNE 29-APR 40	1929	1940	-2.21	USCGS
									APR 40-DATE	1940	1942	-5.00	USCGS
										1942		0.00	USCGS

Station located on channel side of wharf (formerly located on inshore side of wharf) immediately southeast of Benicia. Period of record intermittent from 1929 to 1940.

TABLE B-4
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision				Change or Revision		
Report	Page	Mile & Bank	Name	Item	From	To
Bulletin No. 23-62	394		Suisun Bay at Benicia Arsenal	<u>1962</u> Daily Maximum and Minimum Tides for the period 3-1-62 to 3-28-62, inclusive	Published values	2.00 feet lower than published values
				Maximum for March 1962	16.72	14.72
Bulletin No. 130-63	B-7		Suisun Bay at Benicia Arsenal	<u>1963</u> Maximum Gage Height of Record	6.72	5.7
				Date of Maximum Gage Height of Record	3-5-62	4-6-58
Bulletin No. 130-64	48		Suisun Bay at Benicia Arsenal	<u>1964</u> Maximum Gage Height of Record	6.72	5.7
				Date of Maximum Gage Height of Record	3-5-62	4-6-58
Bulletin No. 130-64	52		City of Vallejo from Cache Slough	Total acre-feet	Published values	Values published in Bulletin No. 130-66 Table B-2
				Average cubic feet per second	Published values	Values published in Bulletin No. 130-66 Table B-2
				Monthly quantities in percent of seasonal	Published values	Values published in Bulletin No. 130-66 Table B-2
Bulletin No. 130-67	44		Sacramento River at Collinsville	<u>1967</u> Daily Maximum and Minimum Tides		<u>Notation:</u> In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.
Bulletin No. 130-67	45		Suisun Bay at Benicia Arsenal	Daily Maximum and Minimum Tides		<u>Notation:</u> In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.

Appendix C: GROUND WATER MEASUREMENTS



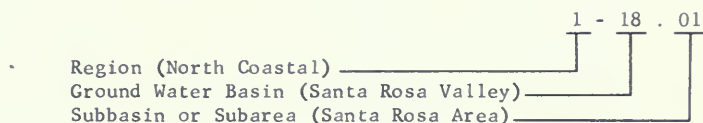
INTRODUCTION

This appendix contains ground water level measurements from 385 wells for the period October 1, 1970, through September 30, 1971. It contains tables which summarize the measurements and bar graphs of average depth to water in selected basins.

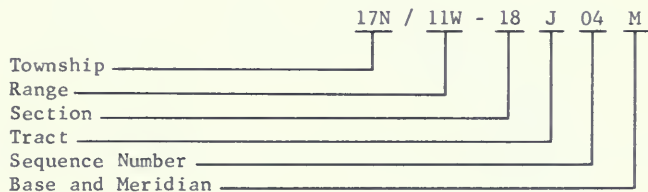
There are 28 ground water basins or areas in the Central Coastal Area for which data are reported. Wells are selected to reflect the ground water conditions of the area. These wells are continuously reviewed, and when conditions dictate, replacement wells are located and measured.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13200 of the Water Code. That portion of Northern California covered by this report comprises the southern portion of North Coastal Region No. 1, the northern portion of Central Coastal Region No. 3, and all of San Francisco Bay Region No. 2. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the public land survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



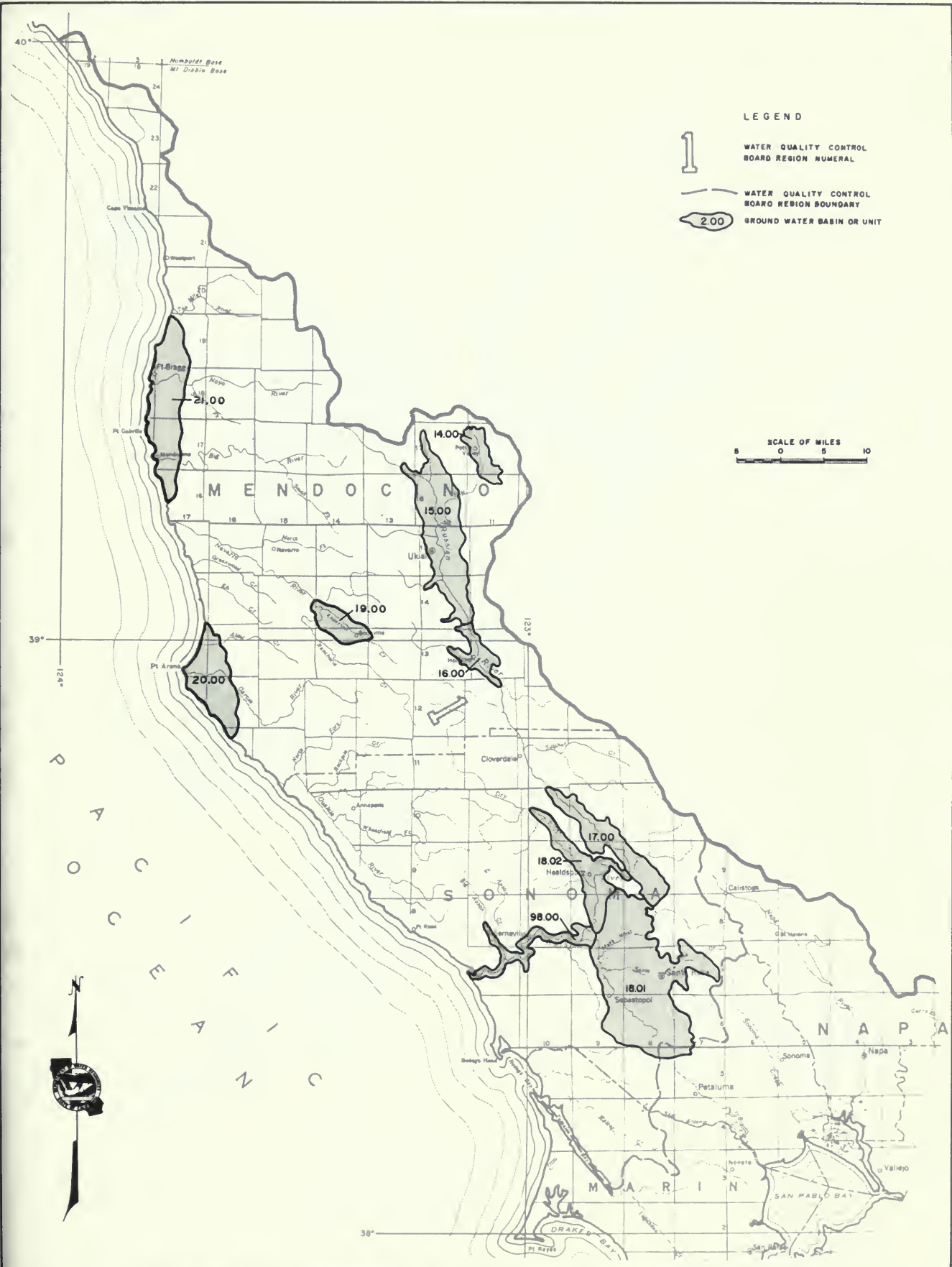
This number identifies and locates the well. In the example, the well is in Township 17 North, Range 11 West, Tract J of Section 18, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract J.

INDEX TO GROUND WATER MEASUREMENT DATA
IN THE CENTRAL COASTAL AREA

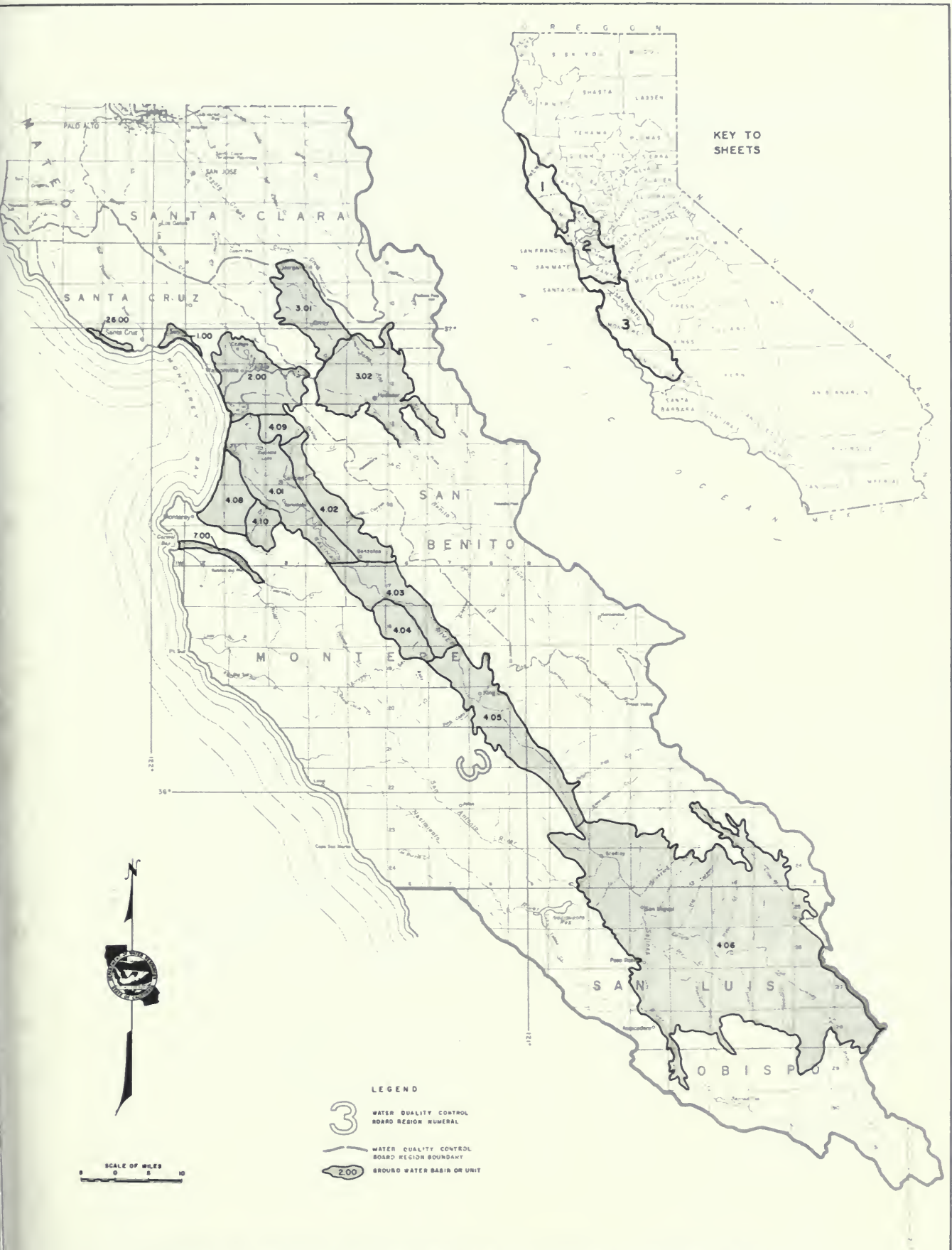
<u>Number</u>	<u>Basin</u>	<u>Page</u>
NORTH COASTAL REGION 1-00.00 (Figure C-1, Sheet 1)		
1-14.00	Potter Valley	20, 27
1-15.00	Ukiah Valley	20, 27
1-16.00	Sanel Valley	20, 27
1-17.00	Alexander Valley	20, 27
1-18.00	Santa Rosa Valley	
1-18.01	Santa Rosa Area	20, 27
1-18.02	Healdsburg Area	20, 27
1-19.00	Anderson Valley	
1-20.00	Point Arena	
1-21.00	Fort Bragg Terrace	
1-98.00	Lower Russian River Valley	
SAN FRANCISCO BAY REGION 2-00.00 (Figure C-1, Sheet 2)		
2-01.00	Petaluma Valley	20, 28
2-02.00	Napa-Sonoma Valley	
2-02.01	Napa Valley	20, 28
2-02.02	Sonoma Valley	20, 29
2-03.00	Suisun-Fairfield Valley	20, 29
2-04.00	Pittsburg Plain	20, 30
2-05.00	Clayton Valley	
2-06.00	Ygnacio Valley	20, 30
2-09.00	Santa Clara Valley	
2-09.01	East Bay Area	20, 30
2-09.02	South Bay Area	20, 31
2-10.00	Livermore Valley	20, 32
2-22.00	Half Moon Bay Terrace	
2-24.00	San Gregorio Valley	
2-26.00	Pescadero Valley	
CENTRAL COASTAL REGION 3-00.00 (Figure C-1, Sheet 3)		
3-01.00	Soquel Valley	
3-02.00	Pajaro Valley	20, 34
3-03.00	Gilroy-Hollister Valley	
3-03.01	South Santa Clara County	20, 34
3-03.02	San Benito County	20, 34
3-04.00	Salinas Valley	
3-04.01	Pressure Area	20, 34
3-04.02	East Side Area	20, 35
3-04.03	Forebay Area	20
3-04.04	Arroyo Seco Cone	20, 35
3-04.05	Upper Valley Area	20, 35
3-04.06	Paso Robles Basin	20, 35
3-04.08	Seaside Area	20, 36
3-04.09	Langley Area	20
3-04.10	Corral De Tierra Area	20
3-07.00	Carmel Valley	20, 36
3-26.00	West Santa Cruz Terrace	



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

TABLE C-1

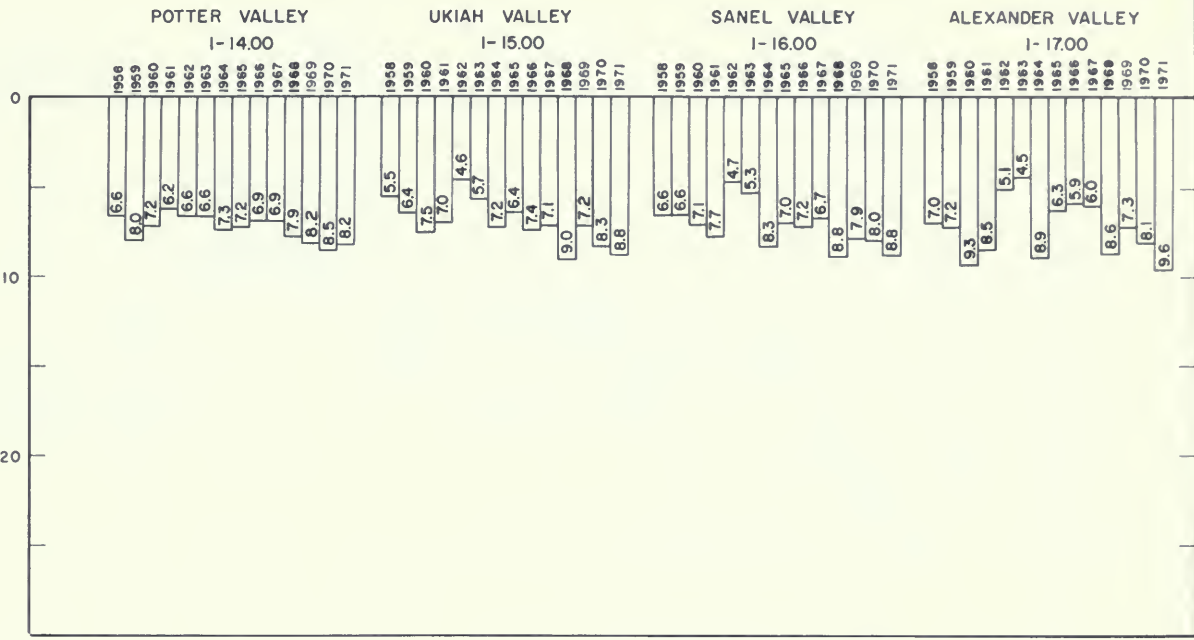
AVERAGE CHANGE OF GROUND WATER LEVELS
AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin or Area		Average Change Spring 1970 to Spring 1971 in Feet	Measuring Agency	Number of Wells Reported		
Name	Number			Monthly 1970-71	Fall 1970	Spring 1971
NORTH COASTAL REGION						
Potter Valley	1-14.00	+0.3	Department of Water Resources		2	2
Ukiah Valley	1-15.00	-0.5	Department of Water Resources		2	2
Sanel Valley	1-16.00	-0.8	Department of Water Resources		3	3
Alexander Valley	1-17.00	-1.5	Department of Water Resources		6	6
Santa Rosa Valley	1-18.00					
Santa Rosa Area	1-18.01	-0.6	Department of Water Resources		12	12
Healdsburg Area	1-18.02	-0.4	U. S. Geological Survey	9		
SAN FRANCISCO BAY REGION						
Petaluma Valley	2-01.00	-1.5	Department of Water Resources		6	6
Napa-Sonoma Valley	2-02.00					
Napa Valley	2-02.01	-0.2	Napa County Department of Water Resources		5	112 5
Sonoma Valley	2-02.02	0.0	Department of Water Resources		5	5
Suisun-Fairfield Valley	2-03.00	-0.8	Solano County Department of Water Resources	7	16	15
Pittsburg Plain	2-04.00	-0.2	Department of Water Resources		6	6
Ygnacio Valley	2-06.00	-0.4	Department of Water Resources		5	5
Santa Clara Valley	2-09.00					
East Bay Area	2-09.01	+0.3	Alameda County FC & WCD Alameda County Water District	3 2	6 3	6 3
South Bay Area	2-09.02	+3.7	Santa Clara Valley WCD	16		
Livermore Valley	2-10.00	+2.5	Alameda County FC & WCD	8	59	58
CENTRAL COASTAL REGION						
Pajaro Valley	3-02.00	-1.2*	Monterey County FC & WCD Department of Water Resources	3	2 5	5
Gilroy-Hollister Valley	3-03.00	-7.9				
South Santa Clara County	3-03.01	-9.2	Santa Clara Valley WCD Department of Water Resources		7 7	7 7
San Benito County	3-03.02	-0.1	San Benito County Department of Water Resources		5	2 5
Salinas Valley	3-04.00	+0.1*				
Pressure Area	3-04.01	+0.8*	Monterey County FC & WCD	3	4	
East Side Area	3-04.02	+0.3*	Monterey County FC & WCD		1	
Forebay Area	3-04.03	+1.7*				
Arroyo Seco Cone	3-04.04	-4.6*	Monterey County FC & WCD	2		
Upper Valley Area	3-04.05	-0.8*	Monterey County FC & WCD	3	2	
Paso Robles Basin	3-04.06	-3.1*	San Luis Obispo FC & WCD	5	43	44
Seaside Area	3-04.08	-1.6*	Post Engineer, Fort Ord	2		
Langley Area	3-04.09	-0.8*				
Corral de Tierra Area	3-04.10	-1.1*				
Carmel Valley	3-07.00	-3.2*	Monterey County FC & WCD	4		
TOTAL				67	212	316

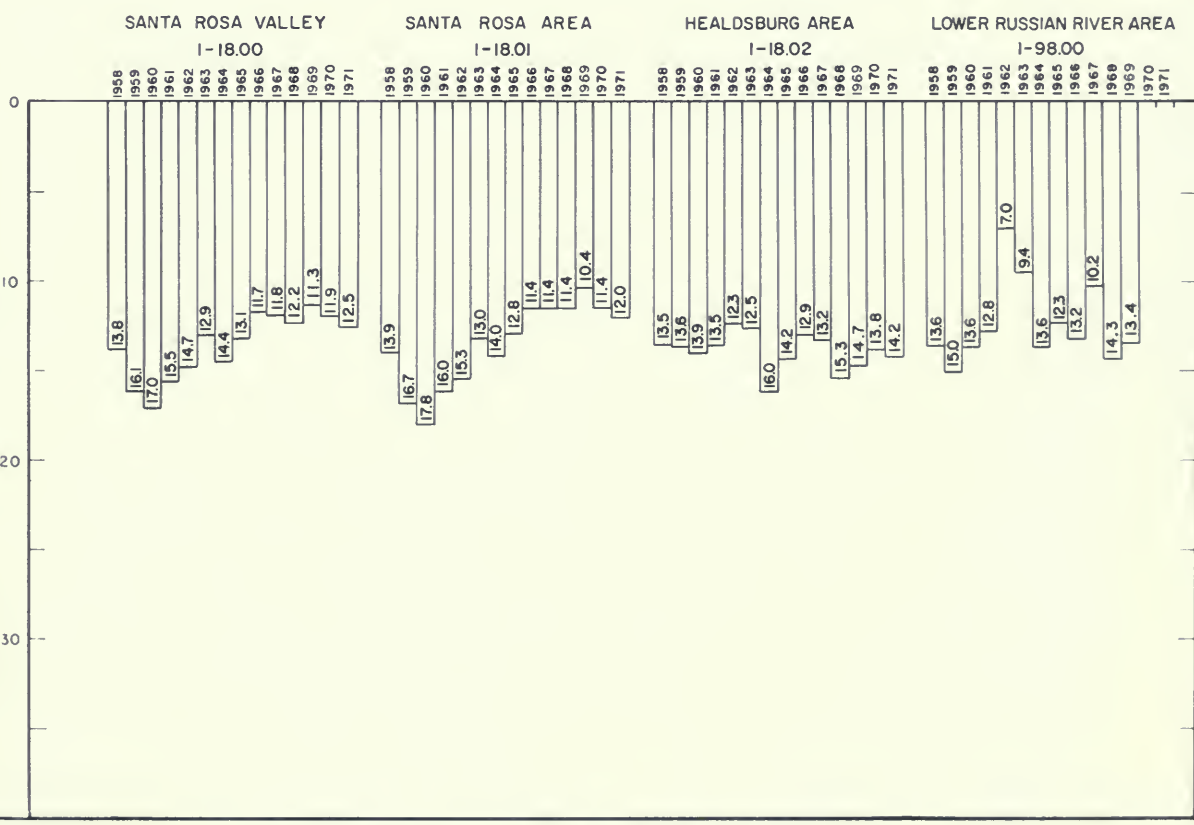
*Average change determined from water level measurements made during fall of 1969 and fall of 1970.

130-71

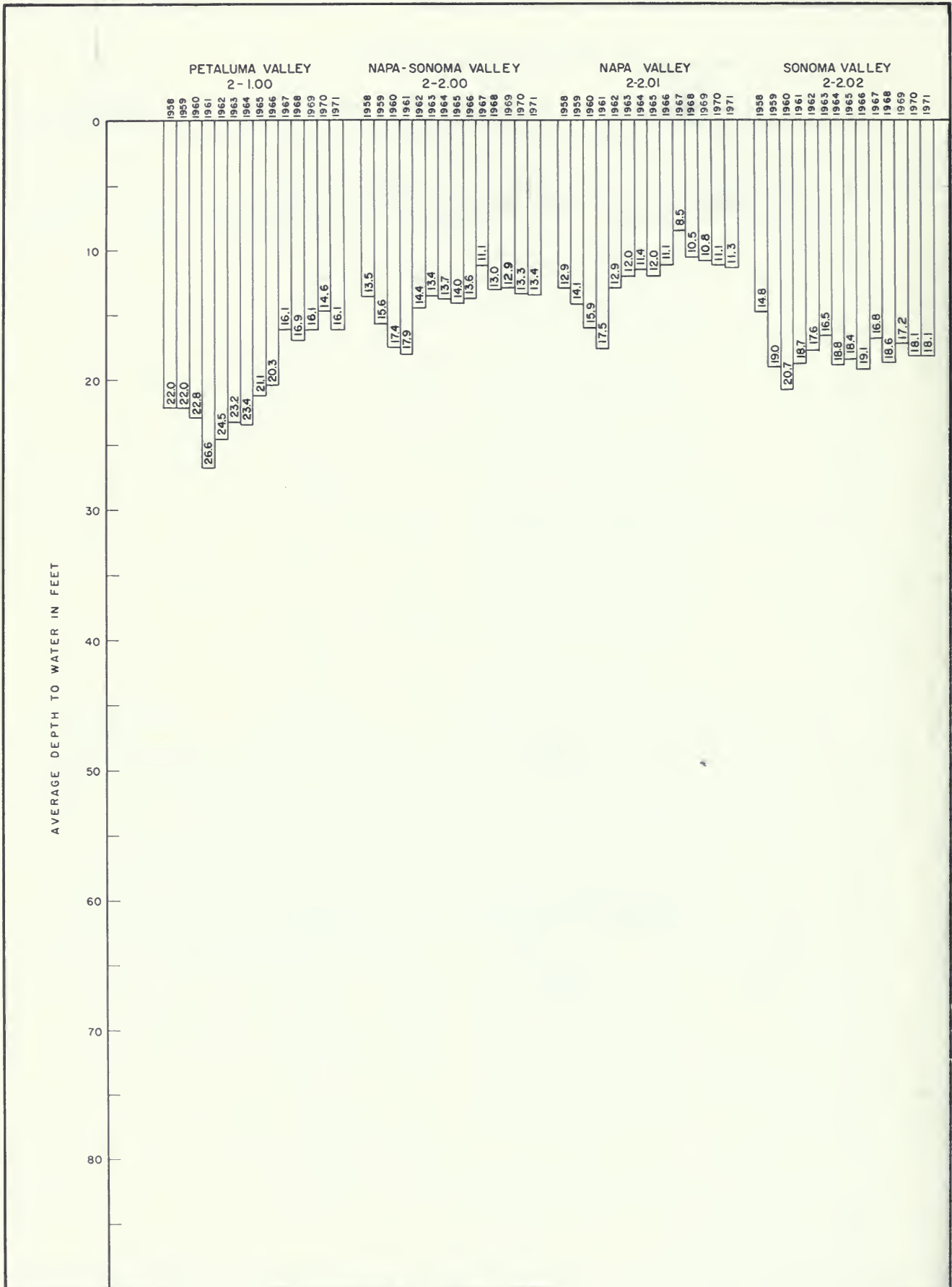
AVERAGE DEPTH TO WATER IN FEET



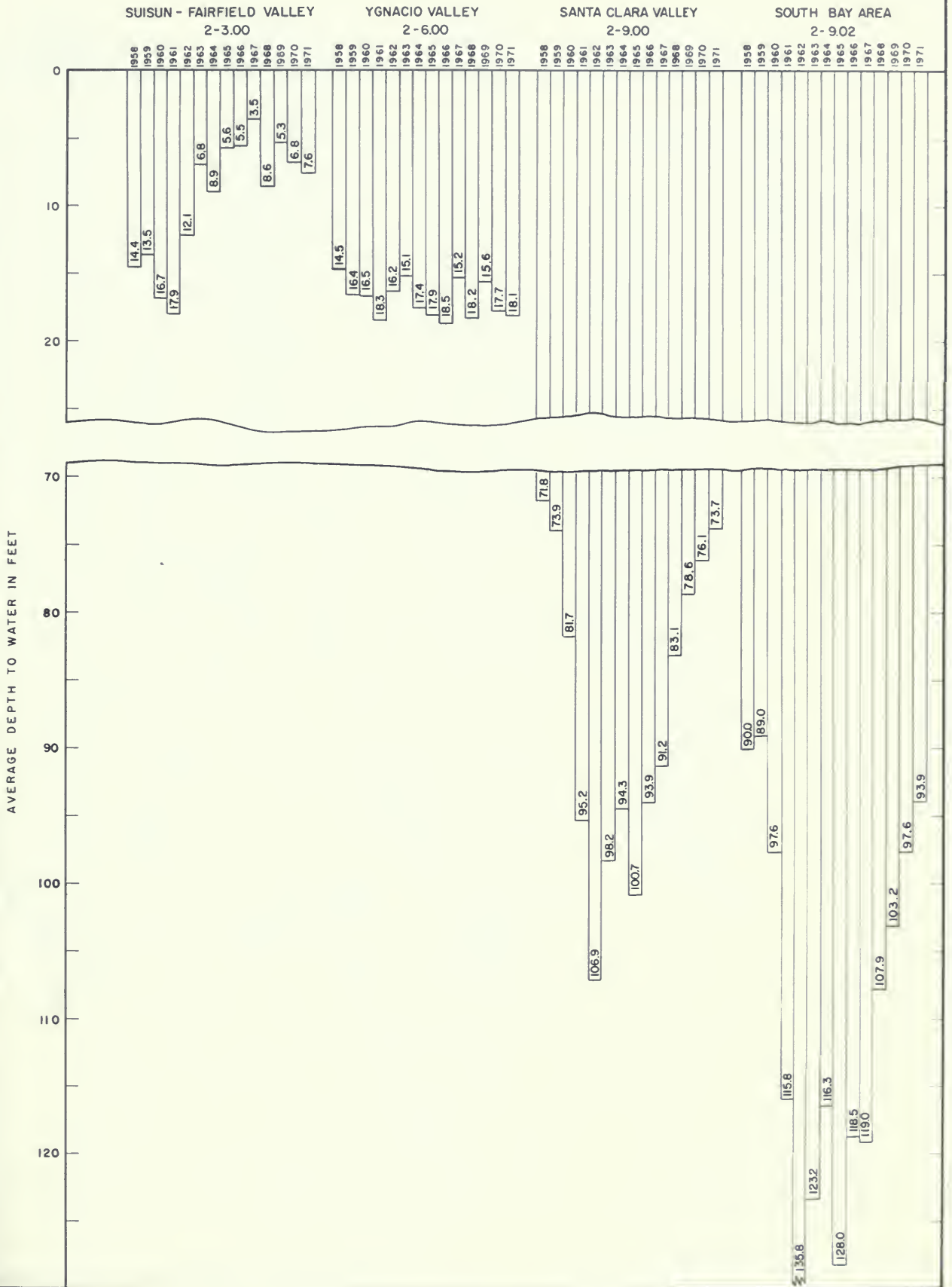
130 - 71



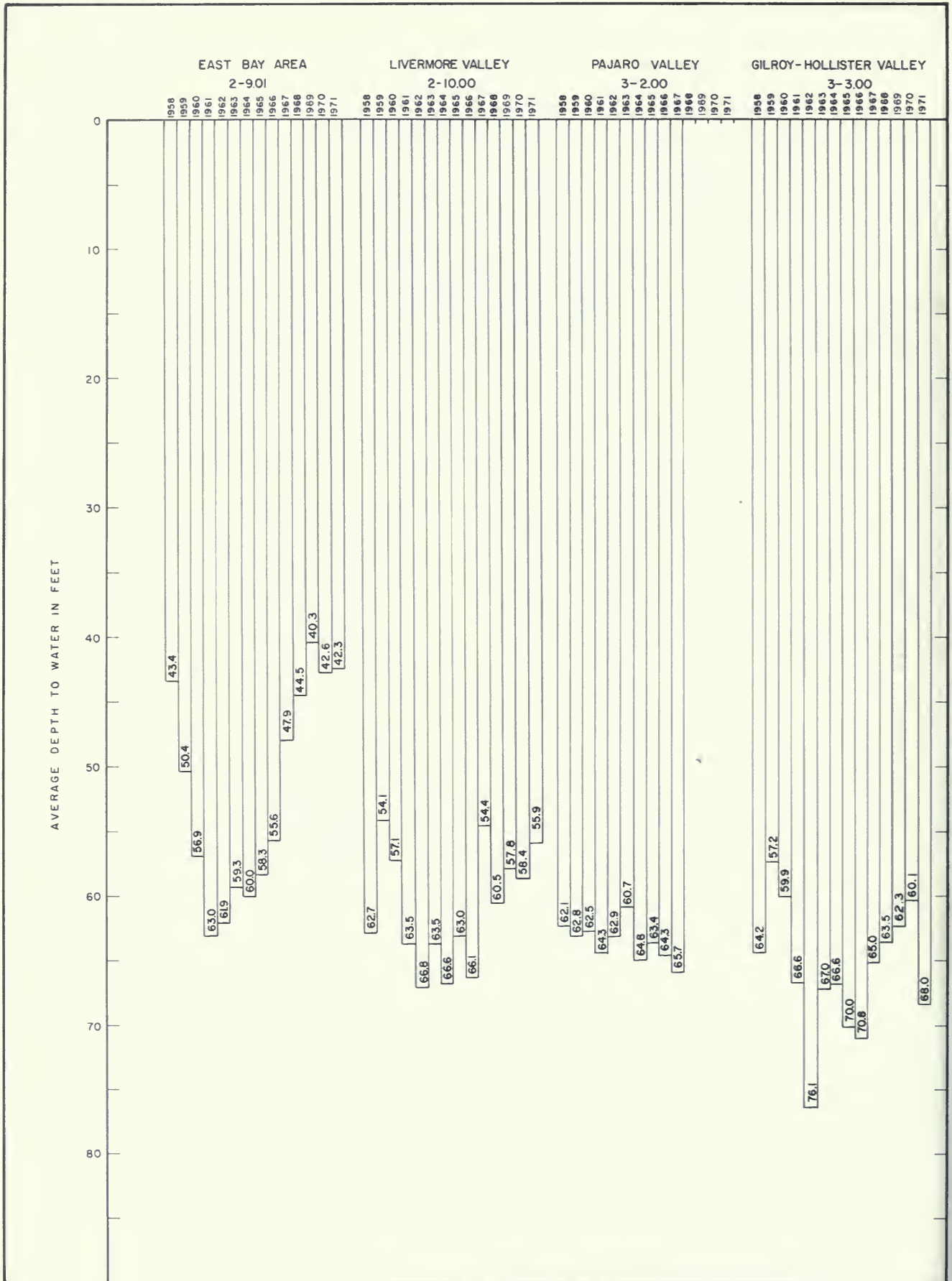
AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1971



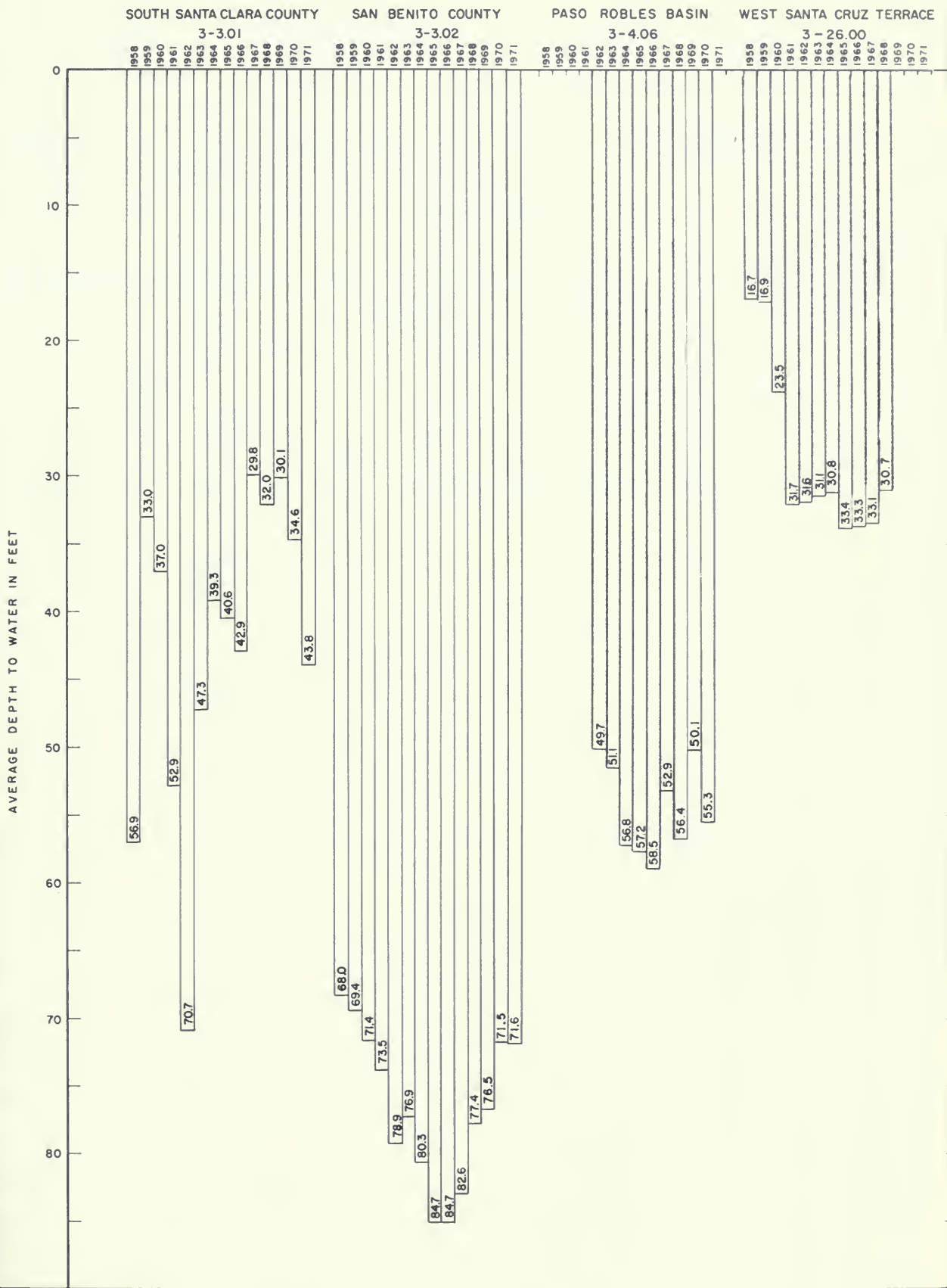
AVERAGE DEPTH TO WATER IN WELLS
 SPRING 1958 TO SPRING 1971



AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1971



AVERAGE DEPTH TO WATER IN WELLS
 SPRING 1958 TO SPRING 1971



AVERAGE DEPTH TO WATER IN WELLS
 SPRING 1958 TO SPRING 1971

TABLE C-2 GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number - Refer to the explanation under Introduction on page 15.

Ground Surface Elevation - The numbers in this column are the elevations in feet above mean sea level (USGS Datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date - The date shown is when the depth measurement given in the next column was made.

Ground Surface to Water Surface - This is the measured depth in feet from the ground surface to the water surface in the well; certain of the depth measurements in the column may be preceded by a number in parentheses to indicate a questionable measurement. The code applicable to these "questionable measurements" is as follows:

- | | |
|--------------------------------------|--|
| (1) Pumping | (6) Other |
| (2) Nearby pump operating | (7) Recharge operation at or near well |
| (3) Casing leaking or wet | (8) Oil in casing |
| (4) Pumped recently | (9) Caved or deepened |
| (5) Air or pressure gage measurement | |

When a measurement was attempted, but could not be obtained, then only a number in parentheses is shown in the column. The code applicable to these "no measurements" is as follows:

- | | |
|-------------------------------|------------------------------|
| (1) Pumping | (6) Well has been destroyed |
| (2) Pump house locked | (7) Special |
| (3) Tape hung up | (8) Casing leaking or wet |
| (4) Cannot get tape in casing | (9) Temporarily inaccessible |
| (5) Unable to locate well | (0) Measurement discontinued |

The words FLOW and DRY are shown in this column to indicate a flowing or dry well, respectively. A minus preceding the number in this column indicates that the static water level in the well is this distance in feet above the ground surface.

Water Surface Elevation - This is the elevation in feet above mean sea level (USGS Datum) of the water surface in the well. It was derived by subtraction of the depth measurement from the ground surface elevation.

Agency Supplying Data - Each number in this column is the code number for the agency supplying data for that measurement. The agencies supplying data for this report and the code numbers assigned to them are as follows:

<u>Code</u>	<u>Agency</u>
2100	Monterey County Flood Control and Water Conservation District
2400	Santa Clara County Flood Control and Water District
5000	U. S. Geological Survey
5005	Post Engineer, Fort Ord
5050	Department of Water Resources
5100	Alameda County Flood Control and Water Conservation District
5101	Napa County
5102	Santa Cruz County
5109	Solano County
5117	San Luis Obispo County Flood Control and Water Conservation District
5151	San Benito County
5200	City of Gilroy
5401	Alameda County Water District

TABLE C-2 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION 1-00.00						SANTA ROSA AREA 1-18.01 (Continued)					
POTTER VALLEY 1-14.00						08N/09W-36P01M 90.0 10- 8-70 55.3 34.7 5050 3-10-71 50.9 39.1 5050					
17N/11W-18J01M	955.0	10-06-70 3-11-71	0.9 -0.3	954.1 955.3	5050 5050	HEALDSBURG AREA 1-18.02					
17N/11W-32J01M	905.0	10-06-70 3-11-71	4.1 2.1	900.9 902.9	5050 5050	08N/09W-03P01M 77.0 10-21-70 8.7 68.3 5000 11-16-70 4.9 72.1 5000 12-15-70 3.7 73.3 5000 1-15-71 4.1 72.9 5000 2-16-71 3.3 73.7 5000 3-15-71 5.5 71.5 5000 4-14-71 5.5 71.5 5000 5-13-71 6.4 70.6 5000 9-10-71 8.6 68.4 5000					
UKIAH VALLEY 1-15.00						08N/09W-22L01M 67.0 10-21-70 31.9 32.1 5000 11-16-70 30.6 36.4 5000 12-15-70 27.6 39.4 5000 1-15-71 28.3 38.7 5000 2-16-71 (1) 30.2 36.8 5000 3-15-71 27.9 39.1 5000 4-14-71 (1) 29.6 37.4 5000 5-13-71 (1) 29.5 37.5 5000 9-10-71 31.2 35.8 5000					
15N/12W-08L01M	640.0	10-06-70 3-11-71	28.1 19.0	611.9 621.0	5050 5050	09N/09W-20E02M 100.0 10-21-70 18.2 81.8 5000 11-16-70 16.9 83.1 5000 12-15-70 (4) 16.6 83.4 5000 1-15-71 15.5 84.5 5000 2-16-71 17.4 82.6 5000 3-15-71 15.6 84.4 5000 4-14-71 16.9 83.1 5000 5-13-71 17.6 82.4 5000 9-10-71 18.6 81.4 5000					
15N/12W-35M01M	600.0	10-06-70 3-11-71	7.9 3.2	592.1 596.8	5050 5050	09N/09W-20K04M 97.0 10-21-70 7.2 89.8 5000 11-16-70 6.1 90.9 5000 12-15-70 2.8 94.2 5000 1-15-71 1.5 95.5 5000 2-16-71 3.0 94.0 5000 3-15-71 2.5 94.5 5000 4-14-71 2.8 94.2 5000 5-13-71 4.0 93.0 5000 9-10-71 7.5 89.5 5000					
SANEL VALLEY 1-16.00						09N/09W-28N01M 90.0 10-21-70 25.9 64.1 5000 11-16-70 18.6 71.4 5000 12-15-70 17.2 72.8 5000 1-15-71 16.7 73.3 5000 2-16-71 18.2 71.8 5000 3-15-71 16.9 73.1 5000 4-14-71 18.0 72.0 5000 5-13-71 18.5 71.5 5000 9-10-71 (4) 25.5 64.5 5000					
13N/11W-18E01M	490.0	10-07-70 (1) 3-11-71	13.2 11.5	476.8 478.5	5050 5050	09N/10W-12C01M 120.0 10-21-70 15.0 105.0 5000 11-16-70 14.3 105.7 5000 12-15-70 13.5 106.5 5000 1-15-71 13.2 106.8 5000 2-16-71 14.4 105.6 5000 3-15-71 12.9 107.1 5000 4-14-71 13.7 106.3 5000 5-13-71 14.7 105.3 5000 9-10-71 15.9 104.1 5000					
13N/11W-19P01M	488.0	10-07-70 3-11-71	19.4 10.3	468.6 477.7	5050 5050	10N/10W-22D01M 180.0 10-21-70 11.6 168.4 5000 11-16-70 10.7 169.3 5000 12-15-70 (1) 8.7 171.3 5000 1-15-71 7.4 172.6 5000 2-16-71 10.0 170.0 5000 3-15-71 8.4 171.6 5000 4-14-71 (2) 9.4 170.6 5000 5-13-71 (4) 10.3 169.7 5000 9-10-71 11.8 168.2 5000					
13N/11W-20G01M	515.0	10-07-70 3-11-71	12.9 5.0	502.1 510.0	5050 5050	10N/10W-26M01M 161.0 10-21-70 13.9 147.1 5000 11-16-70 10.7 150.3 5000 12-15-70 9.2 151.8 5000 1-15-71 9.0 152.0 5000 2-16-71 10.6 150.4 5000 3-15-71 9.2 151.8 5000 4-14-71 10.1 150.9 5000 5-13-71 10.8 150.2 5000 9-10-71 13.2 147.8 5000					
ALEXANDER VALLEY 1-17.00											
10N/09W-18B01M	230.0	10-07-70 3-10-71	20.6 16.4	209.4 213.6	5050 5050						
10N/09W-26L02M	205.0	10-07-70 (1) 3-10-71	23.6 3.0	181.4 202.0	5050 5050						
10N/09W-33C01M	180.0	10-07-70 3-10-71	7.5 6.2	172.5 173.8	5050 5050						
11N/10W-08P01M	305.0	10-07-70 3-11-71	11.8 10.8	293.2 294.2	5050 5050						
11N/10W-17P02M	292.0	10-07-70 3-11-71	10.0 9.5	282.0 282.5	5050 5050						
11N/10W-19F02M	346.0	10-07-70 3-11-71	13.8 5.7	332.2 340.3	5050 5050						
SANTA ROSA VALLEY 1-18.00											
SANTA ROSA AREA 1-18.01											
06N/08W-07P02M	95.0	10-08-70 (4) 3-10-71	49.0 15.3	46.0 79.7	5050 5050						
06N/08W-13R01M	115.0	10-08-70 3-10-71	30.1 18.9	84.9 96.1	5050 5050						
06N/08W-15J03M	95.0	10-08-70 3-10-71	27.9 14.3	67.1 80.7	5050 5050						
06N/08W-15R01M	95.0	10-08-70 3-10-71	34.8 20.0	60.2 75.0	5050 5050						
07N/06W-19N01M	465.0	10-08-70 3-10-71	15.9 6.2	449.1 458.8	5050 5050						
07N/07W-06R01M	275.0	10-08-70 3-10-71	13.5 6.9	261.5 268.1	5050 5050						
07N/08W-11M01M	160.0	10-08-70 3-10-71	8.6 (6)	151.4	5050 5050						
07N/08W-24H01M	190.0	10-08-70 3-10-71	(9) 10.7		5050 5050						
07N/09W-01C01M	90.0	10-08-70 3-10-71	23.0 18.5	67.0 71.5	5050 5050						
07N/09W-35D02M	135.0	10-08-70 3-10-71	36.0 27.5	99.0 107.5	5050 5050						
08N/09W-36N01M	90.0	10-08-70 3-10-71	10.2 6.2	79.8 83.8	5050 5050						

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
HEALDSBURG AREA 1-18.02 (Continued)						NAPA VALLEY 2-02.01 (Continued)					
10N/10W-35Q01M	142.0	10-21-70	6.1	135.9	5000	05N/04W-20R02M	50.0	3-26-71	1.2	48.8	5101
		11-16-70	5.9	136.1	5000	05N/04W-21B01M	75.0	3-26-71	16.3	58.7	5101
		12-15-70	1.0	141.0	5000	05N/04W-22M01M	12.0	3-26-71	-0.8	12.8	5101
		1-15-71	0.7	141.3	5000	05N/04W-28R01M	37.0	3-26-71	29.9	7.1	5101
		2-16-71	1.3	140.7	5000	05N/04W-29H01M	77.0	3-26-71	44.2	32.8	5101
		3-15-71	1.1	140.9	5000	06N/03W-31B01M	240.0	3-26-71	91.0	149.0	5101
		4-14-71	1.0	141.0	5000	06N/03W-31F01M	145.0	3-26-71	42.0	103.0	5101
		5-13-71	2.0	142.0	5000	06N/03W-31H01M	180.0	3-25-71	78.5	101.5	5101
		9-10-71	5.5	136.5	5000	06N/03W-31N01M	170.0	3-25-71	56.5	113.5	5101
SAN FRANCISCO BAY REGION 2-00.00						06N/03W-31N02M	167.0	3-25-71	30.0	137.0	5101
PETALUMA VALLEY 2-01.00						06N/04W-05R01M	67.0	3-25-71	4.0	63.0	5101
03N/06W-01Q01M	2.0	10-09-70	-0.3	2.3	5050	06N/04W-06L02M	80.0	3-25-71	7.5	72.5	5101
		3-09-71	-0.2	2.2	5050	06N/04W-06N01M	75.0	3-25-71	16.0	59.0	5101
05N/07W-19N01M	45.0	10-09-70	13.3	31.7	5050	06N/04W-06P01M	75.0	3-25-71	8.0	67.0	5101
		3-09-71	3.9	41.1	5050	06N/04W-07N01M	135.0	3-25-71	18.5	116.5	5101
05N/07W-20B02M	41.0	10-09-70	59.8	-18.8	5050	06N/04W-08E01M	70.0	3-24-71	7.0	63.0	5101
		3-09-71	45.8	-4.8	5050	06N/04W-15Q01M	67.0	3-25-71	43.7	23.3	5101
05N/07W-21H01M	65.0	10-09-70	38.9	26.1	5050	06N/04W-16P01M	62.0	3-26-71	7.9	54.1	5101
		3-09-71	24.3	40.7	5050	06N/04W-17A01M	67.0	10-05-70 3-09-71	13.5 6.1	53.5 60.9	5050 5050
05N/07W-26R01M	53.6	10-09-70	26.2	27.4	5050	06N/04W-18A02M	85.0	3-18-71	18.0	67.0	5101
		3-09-71	17.7	35.9	5050	06N/04W-19B01M	125.0	3-18-71	17.5	107.5	5101
05N/07W-35K01M	18.8	10-09-70	(2)		5050	06N/04W-21G01M	61.0	3-18-71	1.0	60.0	5101
		3-09-71	7.6	11.2	5050	06N/04W-22P01M	53.0	3-18-71	9.5	43.5	5101
NAPA-SONOMA VALLEY 2-02.00						06N/04W-23J01M	87.0	3-18-71	37.5	49.5	5101
NAPA VALLEY 2-02.01						06N/04W-26N01M	32.0	3-18-71	11.7	20.3	5101
04N/04W-02L01M	25.0	3-24-71	4.2	20.8	5101	06N/04W-27L02M	50.0	10-05-70 3-09-71	48.9 24.6	1.1 25.4	5050 5050
04N/04W-04C01M	12.0	3-23-71	9.7	2.3	5101	06N/04W-27N01M	50.0	3-18-71	14.5	35.5	5101
04N/04W-05B01M	31.0	3-23-71	9.4	21.6	5101	06N/04W-28R01M	62.0	3-19-71	8.1	53.9	5101
04N/04W-05D02M	22.0	3-23-71	5.2	16.8	5101	06N/04W-29B01M	92.0	3-19-71	7.3	84.7	5101
04N/04W-12M01M	48.0	3-24-71	12.6	35.4	5101	06N/04W-30C01M	149.0	3-19-71	4.9	144.1	5101
04N/04W-14C02M	34.0	3-17-71	32.0	2.0	5101	06N/04W-32J06M	94.0	3-19-71	5.0	89.0	5101
04N/04W-25K01M	37.0	3-17-71	2.0	35.0	5101	06N/04W-32L02M	107.0	3-19-71	22.5	84.5	5101
05N/03W-05M01M	255.0	3-26-71	94.5	160.5	5101	06N/04W-35G03M	38.0	3-19-71	38.9	-0.9	5101
05N/04W-03G01M	18.0	3-22-71	4.7	13.3	5101	06N/04W-36H01M	105.0	3-22-71	24.3	80.7	5101
05N/04W-04G01M	63.5	3-22-71	36.3	27.2	5101	06N/05W-12R01M	180.0	3-22-71	13.5	166.5	5101
05N/04W-04Q01M	58.0	3-22-71	11.6	46.4	5101	07N/04W-30L01M	112.0	3-17-71	3.5	108.5	5101
05N/04W-05P01M	121.0	3-23-71	3.3	117.7	5101	07N/04W-30M01M	114.0	3-17-71	0.8	113.2	5101
05N/04W-05P02M	122.0	3-22-71	12.7	109.3	5101	07N/04W-32B02M	180.0	3-17-71	3.0	177.0	5101
05N/04W-10F01M	30.0	3-23-71	2.9	27.1	5101	07N/05W-03G01M	188.0	3-22-71	35.0	153.0	5101
05N/04W-11F03M	16.0	3-23-71	8.0	8.0	5101	07N/05W-03G02M	188.0	3-31-71	13.4	174.6	5101
05N/04W-11M01M	13.0	10-05-70 3-09-71	8.5 7.5	4.5 5.5	5050 5050	07N/05W-04R02M	172.0	3-23-71	6.8	165.2	5101
05N/04W-12F01M	130.0	3-23-71	30.5	99.5	5101	07N/05W-05A01M	182.0	3-22-71	2.0	180.0	5101
05N/04W-12H01M	121.0	3-22-71	46.0	75.0	5101						
05N/04W-13H01M	132.0	3-24-71	6.3	125.7	5101						
05N/04W-13H02M	120.0	3-24-71	12.0	108.0	5101						
05N/04W-14C01M	17.0	3-24-71	12.3	4.7	5101						
05N/04W-15C02M	22.0	3-24-71	18.5	3.5	5101						
05N/04W-15E01M	22.0	3-24-71	14.6	7.4	5101						
05N/04W-19R02M	110.0	3-24-71	13.7	96.3	5101						

TABLE C-2 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NAPA VALLEY 2-02.01 (Continued)						NAPA VALLEY 2-02.01 (Continued)					
07N/05W-06F01M	245.0	3-22-71	16.0	229.0	5101	08N/06W-25G02M	230.0	3-29-71	10.6	219.4	5101
07N/05W-06J01M	215.0	3-22-71	13.5	201.5	5101	09N/06W-31Q01M	340.0	3-29-71	1.0	339.0	5101
07N/05W-08A01M	175.0	3-23-71	10.5	164.5	5101	09N/06W-32M01M	360.0	3-29-71	9.0	351.0	5101
07N/05W-08M01M	190.0	3-23-71	20.5	169.5	5101	09N/07W-24L01M	460.0	3-17-71	7.4	452.6	5101
07N/05W-09Q01M	155.0	3-22-71	9.9	145.1	5101	09N/07W-25N01M	380.0	3-31-71	3.0	377.0	5101
07N/05W-09Q02M	155.0	10-05-71 3-09-71	18.1 12.0	136.9 143.0	5050 5050	09N/07W-25N02M	380.0	3-31-71	3.5	376.5	5101
07N/05W-09Q03M	155.0	3-22-71	4.3	150.7	5101	09N/07W-26P01M	400.0	3-25-71	1.0	399.0	5101
07N/05W-10C01M	162.2	3-22-71	15.0	147.2	5101	09N/07W-35K01M	399.0	3-17-71	1.0	398.0	5101
07N/05W-14B02M	139.0	3-24-71	3.6	135.4	5101	SONOMA VALLEY 2-02.02					
07N/05W-14J01M	140.0	3-24-71	3.7	136.3	5101	05N/05W-17C01M	85.0	10-09-70 3-09-71	25.1 11.5	59.9 73.5	5050 5050
07N/05W-15A01M	143.0	3-24-71	8.4	134.6	5101	05N/05W-18R01M	43.0	10-09-70 3-09-71	13.5 3.1	29.5 39.9	5050 5050
07N/05W-15F01M	141.0	3-24-71	1.5	139.5	5101	05N/05W-28N01M	11.0	10-09-70 (1) 3-09-71 (4)	18.6 8.5	-7.6 2.5	5050 5050
07N/05W-16L01M	171.0	3-24-71	3.2	167.8	5101	05N/05W-29N01M	16.0	10-09-70 3-09-71	(1) (8)		5050 5050
07N/05W-16N02M	193.0	3-24-71	12.7	180.3	5101	05N/05W-30J03M	16.0	10-09-70 3-09-71	14.8 6.9	1.2 9.1	5050 5050
07N/05W-17B02M	161.0	3-17-71	-0.1	161.1	5101	SUISUN-FAIRFIELD VALLEY 2-03.00					
07N/05W-21G01M	152.0	3-17-71	-1.0	153.0	5101	04N/02W-04D02M	26.0	10-26-70 3-17-71	10.1 8.4	15.9 17.6	5109 5109
07N/05W-22E03M	140.0	3-29-71	3.0	137.0	5101	04N/02W-06A01M	35.0	10-16-70 10-26-70 11-16-70 12-15-70 1-15-71 3-02-71 3-18-71 3-30-71 4-28-71 5-25-71 6-24-71 7-30-71 8-31-71 9-28-71	13.7 11.7 14.7 13.1 (9) 12.8 12.5 12.0 12.5 12.9 13.1 13.3 13.5 (9)	21.3 23.3 20.3 21.9 5050 5050 5109 5050 5050 22.1 21.9 21.7 21.5 5050	5050 5109 5050 5050 5050 5050 5050 5050 5050 5050 5050 5050 5050
07N/05W-22H01M	133.0	3-27-71	10.5	122.5	5101	04N/02W-07D01M	17.0	10-26-70 3-17-71	9.7 2.3	7.3 14.7	5109 5109
07N/05W-23D02M	127.0	3-27-71	6.5	120.5	5101	04N/02W-09A01M	7.0	10-16-70 10-26-70 11-16-70 12-15-70 1-15-71 3-02-71 3-17-71 3-30-71 4-28-71 5-26-71 6-24-71 7-30-71 8-31-71 9-28-71	0.7 FLOW 0.3 FLOW FLOW FLOW FLOW FLOW -0.5 -0.2 0.3 0.5 0.5 0.6	6.3 6.7 5050 5050 5050 5109 5050 5050 7.5 7.2 6.7 6.5 6.5 6.4	5050 5109 5050 5050 5050 5050 5050 5050 5050 5050 5050 5050 5050
07N/05W-23Q01M	115.0	3-27-71	3.9	111.1	5101	04N/02W-09H01M	4.0	10-16-70 11-16-70 12-15-70 1-15-71 3-02-71 3-30-71 4-28-71 5-26-71 6-24-71 7-30-71 8-31-71 9-28-71	(1) 0.3 FLOW -0.4 (1) 1.1 (1) 4.1 (1) (1) (1) (1) 0.4	3.7 4.4 0.8 -0.1 5050 5050 5050 5050 5050 5050 5050 3.6	5050 5050 5050 5050 5050 5050 5050 5050 5050 5050 5050 5050
07N/05W-24P01M	127.0	3-27-71	1.2	125.8	5101						
07N/05W-25A01M	163.0	3-27-71	8.0	155.0	5101						
07N/05W-26D02M	127.0	3-25-71	5.0	122.0	5101						
07N/05W-34C02M	190.0	3-25-71	3.4	186.6	5101						
07N/05W-35F02M	175.0	3-30-71	3.2	171.8	5101						
07N/05W-36N01M	141.0	3-30-71	4.5	136.5	5101						
07N/06W-01A01M	264.0	3-30-71	12.3	251.7	5101						
08N/05W-30P01M	220.0	3-17-71	0.7	219.3	5101						
08N/05W-31H01M	212.0	3-22-71	9.2	202.8	5101						
08N/05W-31P02M	237.0	3-25-71	(7)		5101						
08N/05W-31R01M	210.0	3-17-71	6.8	203.2	5101						
08N/05W-32K04M	192.0	3-25-71	6.0	186.0	5101						
08N/06W-03M01M	330.0	3-17-71	33.0	297.0	5101						
08N/06W-04F01M	330.0	3-23-71	65.0	265.0	5101						
08N/06W-06L04M	335.0	3-23-71	8.0	327.0	5101						
08N/06W-09D02M	290.0	3-24-71	12.0	278.0	5101						
08N/06W-09H01M	290.0	3-23-71	1.5	288.5	5101						
08N/06W-09H02M	291.5	3-30-71	2.5	289.0	5101						
08N/06W-10Q01M	290.0	10-05-70 3-09-71	7.2 2.4	282.8 287.6	5050 5050						
08N/06W-14N01M	285.0	3-31-71	10.6	274.4	5101						
08N/06W-14Q01M	250.0	3-23-71	7.5	242.5	5101						
08N/06W-23M01M	285.0	3-17-71	3.4	281.6	5101						
08N/06W-24B01M	300.0	3-17-71	9.5	290.5	5101						

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SUISUN-FAIRFIELD VALLEY 2-03.00 (Continued)						PITTSBURG PLAIN 2-04.00					
04N/03W-01D01M	37.0	10-26-70 3-17-71	7.7 2.8	29.3 34.2	5109 5109	02N/01E-15N01M	40.0	10-19-70 3-08-71	34.2 33.0	5.8 7.0	5050 5050
04N/03W-13G01M	47.0	10-26-70 3-17-71	19.3 18.1	27.7 28.9	5109 5109	02N/01E-15P01M	35.0	10-19-70 3-08-71	21.0 19.9	14.0 15.1	5050 5050
05N/01E-19R01M	39.0	10-27-70 3-17-71	11.1 5.5	27.9 33.5	5109 5109	02N/01E-18D01M	25.0	10-19-70 3-08-71	24.9 21.4	0.1 3.6	5050 5050
05N/01W-02N01M	88.5	10-26-70 3-17-71	9.5 7.9	79.0 80.6	5109 5109	02N/01W-04Q01M	5.0	10-19-70 3-08-71	4.4 (9)	0.6	5050 5050
05N/01W-07E01M	115.0	10-26-70 3-17-71	14.6 12.7	100.4 102.3	5109 5109	02N/01W-11L01M	30.0	10-19-70 3-08-71	30.4 30.1	-0.4 -0.1	5050 5050
05N/01W-25R01M	25.0	10-27-70 3-17-71	9.8 6.2	15.2 18.8	5109 5109	02N/01W-12P01M	30.0	10-19-70 3-08-71	27.7 27.4	2.3 2.6	5050 5050
05N/02W-08G03M	143.0	10-26-70 3-18-71	12.6 9.5	130.4 133.5	5109 5109	YGNACIO VALLEY 2-06.00					
05N/02W-14N03M	100.0	10-26-70	(6)		5109	01N/01W-07K01M	83.0	10-19-70 3-08-71	11.8 10.4	71.2 72.6	5050 5050
05N/02W-21P03M	60.0	10-16-70 10-26-70 11-16-70 12-15-70 1-15-71 3-02-71 3-18-71 3-30-71 4-28-71 5-25-71 6-24-71 7-30-71 8-31-71 9-28-71	12.0 10.9 12.1 10.2 8.2 8.8 9.0 9.2 9.6 9.1 8.4 8.9 9.8 10.8	48.0 49.1 47.9 49.8 51.8 51.2 51.0 50.8 50.4 50.9 51.6 51.1 50.2 49.2	5050 5109 5050 5050 5050 5050 5109 5050 5050 5050 5050 5050 5050 5050	SANTA CLARA VALLEY 2-09.00					
05N/02W-25R01M	7.0	10-16-70 10-26-70 11-16-70 12-15-70 1-15-71 3-02-71 3-17-71 3-30-71 4-28-71 5-26-71 6-24-71 7-30-71 8-31-71 9-28-71	5.3 4.6 4.9 0.5 0.3 2.7 1.4 1.7 3.8 4.4 4.9 5.4 5.8 5.6	1.7 2.4 2.1 6.5 6.7 4.3 5.6 5.3 3.2 2.6 2.1 1.6 1.2 1.4	5050 5109 5050 5050 5050 5050 5109 5050 5050 5050 5050 5050 5050 5050	EAST BAY AREA ABOVE HAYWARD FAULT 2-09.01					
05N/02W-27J02M	24.0	10-16-70 10-26-70 11-16-70 12-15-70 1-15-71 3-04-71 3-17-71 (2) 3-30-71 (2) 4-28-71 5-26-71 (2) 6-24-71 7-30-71 8-31-71 9-28-71	7.9 5.7 5.8 (8) (8) 6.5 30.0 31.9 5.6 25.6 5.9 (8) 6.2 7.1	16.1 18.3 18.2 17.5 -6.0 -7.9 18.4 -1.6 18.1 17.8 16.9	5050 5109 5050 5050 5050 5109 5050 5050 5050 5050 5050 5050 5050 5050	04S/01W-35P03M	115.3	11-05-70 12-01-70 1-05-71 2-02-71 3-29-71 5-04-71 6-04-71 6-28-71 8-02-71 8-30-71 9-27-71	136.9 135.3 136.8 137.3 138.5 140.2 142.0 144.0 145.1 145.9 146.5	-21.6 -20.0 -21.5 -22.0 -23.2 -24.9 -26.7 -28.7 -29.8 -30.6 -31.2	5401 5401 5401 5401 5401 5401 5401 5401 5401 5401 5401
05N/02W-29R01M	46.0	10-26-70 3-18-71 (1)	13.2 15.2	32.8 30.8	5109 5109	EAST BAY AREA UPPER AQUIFER 2-09.01					
05N/02W-30J01M	65.0	10-16-70 11-16-70 12-15-70 1-15-71 3-02-71 3-30-71 4-28-71 5-25-71 6-24-71 7-30-71 8-31-71 9-28-71	20.7 22.2 18.3 17.1 20.1 20.7 21.2 15.0 (1) 16.9 18.2 19.3	44.3 42.8 46.7 47.9 44.9 44.3 43.8 50.0 48.1 46.8 45.7	5050 5050 5050 5050 5050 5050 5050 5050 5050 5050 5050 5050	03S/02W-08M03M	48.0	10-08-70 11-04-70 12-02-70 12-30-70 1-27-71 2-24-71 3-24-71 4-21-71 5-19-71 6-16-71 7-14-71 8-11-71 9-08-71 (1)	19.7 17.9 16.4 15.2 15.0 15.4 14.7 16.0 17.2 17.1 17.0 17.5 18.5	28.3 30.1 31.6 32.8 33.0 32.6 33.3 32.0 30.8 30.9 31.0 30.5 29.5	5100 5100 5100 5100 5100 5100 5100 5100 5100 5100 5100 5100 5100
						03S/02W-08R05M	64.0	10-00-70 4-00-71 9-00-71	31.5 30.1 31.5	32.5 33.9 32.5	5100 5100 5100
						03S/02W-19J01M	30.0	10-08-70 11-04-70 12-02-70 12-30-70 1-27-71 2-24-71 3-24-71 4-21-71 5-19-71 6-16-71 7-14-71 8-11-71 9-08-71	9.9 8.8 9.0 8.1 8.1 8.6 7.8 9.7 8.7 8.9 9.3 9.6 10.2	20.1 21.2 21.0 21.9 21.9 21.4 22.2 20.3 21.3 21.1 20.7 20.4 19.8	5100 5100 5100 5100 5100 5100 5100 5100 5100 5100 5100 5100 5100

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA						
EAST BAY UPPER AQUIFER 2-09.01 (Continued)						SOUTH BAY AREA 2-09.02 (Continued)											
03S/03W-24Q02M	7.0	10-00-70	(1) 9.1	-2.1	5100	06S/01E-30M01M	43.0	1-06-71	46.6	-3.6	2400						
		4-00-71	(1) 8.9	-1.9	5100			2-19-71	40.4	2.6	2400						
		9-00-71	8.9	-1.9	5100			3-15-71	41.1	1.9	2400						
04S/01W-18H03M	47.0	11-03-70	63.1	-16.1	5401	5-13-71	59.6	-16.6	2400	06S/02W-16R01M	48.0	1-07-71	73.2	-25.2	2400		
		12-01-70	61.0	-14.0	5401	2-22-71	70.0	-22.0	2400								
		1-05-71	57.5	-10.5	5401	3-18-71	68.9	-20.9	2400								
		2-01-71	56.0	-9.0	5401	4-16-71	71.6	-23.6	2400								
		3-29-71	55.5	-8.5	5401	5-13-71	75.1	-27.1	2400								
		5-03-71	55.2	-8.2	5401	6-17-71	76.2	-28.2	2400								
		6-02-71	57.1	-10.1	5401	7-19-71	73.7	-25.7	2400								
		6-29-71	58.3	-11.3	5401	8-16-71	78.8	-30.8	2400								
		7-28-71	59.3	-12.3	5401	9-15-71	73.8	-25.8	2400								
		9-02-71	60.7	-13.7	5401	10-07-70	102.1	-29.1	2400								
04S/01W-22P05M	80.0	10-00-70	47.2	32.8	5100	3-18-71	90.4	-17.4	2400	06S/02W-25C01M	73.0	4-19-71	90.0	-17.0	2400		
		4-00-71	40.0	40.0	5100	5-14-71	89.6	-16.6	2400								
		9-00-71	59.6	20.4	5100	6-17-71	92.3	-19.3	2400								
04S/02W-13C02M	36.4	3-29-71	40.9	-4.5	5401	7-19-71	93.1	-20.1	2400			8-17-71	94.0	-21.0	2400		
		9-28-71	44.8	-8.4	5401	9-16-71	94.0	-21.0	2400								
04S/02W-24Q02M	33.4	10-00-70	45.1	-11.7	5100	1-18-71	126.8	52.2	2400			07S/01E-01K01M	179.0	3-10-71	124.3	54.7	2400
		4-00-71	42.6	-9.2	5100	4-12-71	124.0	55.0	2400								
		9-00-71	44.4	-11.0	5100	5-10-71	123.1	55.9	2400								
02S/03W-36R01M	45.0	10-00-70	(1) 180.5	-135.5	5100	6-09-71	122.3	56.7	2400					7-08-71	120.5	58.5	2400
		4-00-71	(1) 178.0	-133.0	5100	7-08-71	120.5	58.5	2400					8-06-71	119.5	59.5	2400
		9-00-71	77.5	-32.5	5100	9-08-71	117.5	61.5	2400	10-01-70	143.4			8.2	2400		
		03S/03W-24J01M	11.0	10-08-70	69.5	-58.5	5100	10-29-70	146.3	5.3	2400			11-30-70	129.3	22.3	2400
				11-04-70	58.0	-47.0	5100	12-30-70	120.4	31.2	2400			2-01-71	112.2	39.4	2400
				12-02-70	55.0	-44.0	5100	2-01-71	112.2	39.4	2400			3-01-71	110.9	40.7	2400
				12-30-70	55.0	-44.0	5100	3-01-71	110.9	40.7	2400			3-30-71	110.3	41.3	2400
				1-27-71	51.7	-40.7	5100	4-29-71	112.0	39.6	2400	6-02-71	111.7	39.9	2400		
				2-24-71	51.0	-40.0	5100	7-01-71	114.8	36.8	2400	7-29-71	128.7	22.9	2400		
				3-24-71	49.1	-38.1	5100	7-29-71	128.7	22.9	2400	8-31-71	133.6	18.0	2400		
				4-21-71	49.9	-38.9	5100	9-30-71	135.1	16.5	2400	1-12-71	91.8	38.2	2400		
				5-19-71	50.4	-39.4	5100	3-08-71	85.6	44.4	2400	3-08-71	85.6	44.4	2400		
				6-16-71	52.6	-41.6	5100	4-09-71	79.7	50.3	2400	5-07-71	80.0	50.0	2400		
				7-14-71	53.3	-42.3	5100	6-08-71	87.3	42.7	2400	6-08-71	87.3	42.7	2400		
				8-11-71	58.4	-47.4	5100	7-08-71	80.2	49.8	2400	7-08-71	80.2	49.8	2400		
9-08-71	67.2			-56.2	5100	8-09-71	79.8	50.2	2400	8-09-71	79.8	50.2	2400				
03S/03W-36R03M	5.0			10-00-70	66.8	-61.8	5100	9-08-71	79.6	50.4	2400	07S/02E-07P01M	130.0	1-12-71	91.8	38.2	2400
				4-00-71	55.0	-50.0	5100	3-08-71	85.6	44.4	2400						
		9-00-71	63.9	-58.9	5100	4-09-71	79.7	50.3	2400								
04S/02W-02Q01M	26.0	3-22-71	55.4	-29.4	5401	5-07-71	80.0	50.0	2400	6-08-71	87.3			42.7	2400		
		05S/01W-09M01M	15.0	3-26-71	31.1	-16.1	5401	6-08-71	87.3	42.7	2400			7-08-71	80.2	49.8	2400
				10-05-70	164.7	-26.7	2400	7-08-71	80.2	49.8	2400			8-09-71	79.8	50.2	2400
11-01-70	156.0			-18.0	2400	9-08-71	79.6	50.4	2400	9-08-71	79.6			50.4	2400		
11-30-70	151.9	-13.9	2400	07S/02E-17H01M	349.0	3-09-71	96.7	252.3	2400	5-07-71	98.0			251.0	2400		
12-29-70	144.8	-6.8	2400			6-08-71	(1)	2400	6-08-71	(1)	2400						
2-01-71	148.4	-10.4	2400			7-08-71	88.8	260.2	2400	7-08-71	(2) 89.2			259.8	2400		
3-02-71	148.8	-10.8	2400			8-06-71	89.2	259.8	2400	9-08-71	89.5	259.5	2400				
4-01-71	134.5	3.5	2400			07S/02E-33C01M	462.0	1-12-71	18.1	443.9	2400	1-12-71	18.1	443.9	2400		
4-30-71	132.8	5.2	2400					3-09-71	19.0	443.0	2400	3-09-71	19.0	443.0	2400		
5-28-71	142.8	-4.8	2400					4-12-71	18.1	443.9	2400	4-12-71	18.1	443.9	2400		
6-30-71	147.2	-9.2	2400					5-07-71	18.0	444.0	2400	5-07-71	18.0	444.0	2400		
7-29-71	156.7	-18.7	2400					6-08-71	18.2	443.8	2400	6-08-71	18.2	443.8	2400		
8-31-71	161.0	-23.0	2400					7-07-71	17.8	444.2	2400	7-07-71	17.8	444.2	2400		
06S/01E-21R01M	138.0	11-02-70	123.3	117.2	2400			8-06-71	18.8	443.2	2400	9-08-71	19.2	442.8	2400		
		11-30-70	126.8	113.7	2400			07S/02W-04B01M	218.0	10-07-70	215.4	2.6	2400				
		12-29-70	125.5	115.0	2400					1-08-71	227.8	-9.8	2400				
		2-01-71	122.5	118.0	2400					2-26-71	201.1	16.9	2400				
		3-02-71	123.0	117.5	2400	3-18-71	206.2			11.8	2400						
		4-01-71	123.2	117.3	2400	4-19-71	(6) 222.7			-4.7	2400						
		4-30-71	124.6	115.9	2400	5-14-71	(6) 223.9			-5.9	2400						
		5-28-71	124.6	115.9	2400	6-17-71	(6) 225.3			-7.3	2400						
		6-30-71	124.7	115.8	2400	7-29-71	(6) 225.9			-7.9	2400						
		7-29-71	125.9	114.6	2400	8-31-71	(6) 227.4			-9.4	2400						
8-30-71	126.0	114.5	2400	9-30-71	(6) 228.0	-10.0	2400										

TABLE C-2 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA		
SOUTH BAY AREA 2-09.02 (Continued)						LIVERMORE VALLEY 2-10.00 (Continued)							
07S/02W-22A01M	340.0	10-15-70	26.8	313.2	2400	02S/01W-22K01M	440.0	10-00-70	20.4	419.6	5100		
		2-08-71	25.1	314.9	2400			4-00-71	14.3	425.7	5100		
		3-19-71	25.4	314.6	2400			9-00-71	17.7	422.3	5100		
		4-21-71	26.4	313.6	2400			02S/01W-26C01M	416.9	10-00-70	38.2	378.7	5100
		5-17-71	26.6	313.4	2400					4-00-71	29.4	387.5	5100
		6-18-71	25.4	314.6	2400					9-00-71	32.4	384.5	5100
		7-19-71	26.0	314.0	2400					03S/01E-01G02M	418.0	10-00-70	50.2
		8-17-71	26.9	313.1	2400			4-00-71	26.1			391.9	5100
9-16-71	26.6	313.4	2400	9-00-71	48.3	369.7	5100						
08S/02E-20F03M	209.0	11-24-70	24.6	184.4	2400	03S/01E-02J01M	408.0	10-00-70	50.8	357.2	5100		
		2-22-71	21.2	187.8	2400			4-00-71	49.8	358.2	5100		
		3-29-71	27.5	181.5	2400			9-00-71	50.3	357.7	5100		
		4-29-71	28.6	180.4	2400	03S/01E-03J01M	361.0	10-00-70	22.4	338.6	5100		
		5-26-71	26.6	182.4	2400			4-00-71	22.3	338.7	5100		
		6-25-71	27.6	181.4	2400			9-00-71	23.5	337.5	5100		
		8-25-71	27.6	181.4	2400			03S/01E-05M01M	333.7	10-00-70	6.0	327.7	5100
11-24-70	11.4	228.3	2400	4-00-71	5.5	328.2	5100						
2-22-71 (6)	23.4	216.3	2400	9-00-71	14.7	319.0	5100						
08S/02E-22D01M	239.7	3-29-71	16.6	223.1	2400	03S/01E-05R02M	340.0	10-00-70 (1)	79.8	260.2	5100		
		4-29-71	11.2	228.5	2400			4-00-71	77.1	262.9	5100		
		5-26-71	11.2	228.5	2400			9-00-71	94.6	245.4	5100		
		6-25-71	11.5	228.2	2400	03S/01E-06C01M	334.7	10-00-70	25.6	309.1	5100		
		8-25-71	11.4	228.3	2400			4-00-71	22.5	312.2	5100		
		11-24-70	11.4	228.3	2400			9-00-71	26.7	308.0	5100		
		09S/02E-01J01M	314.6	11-04-70	31.2	283.4	2400	03S/01E-08J02M	339.6	10-14-70	87.2	252.4	5100
				11-30-70	31.8	282.8	2400			11-25-70	85.0	254.6	5100
12-31-70	29.6			285.0	2400	12-09-70	82.9			256.7	5100		
1-29-71	30.2			284.4	2400	1-06-71	80.1	259.5	5100				
2-26-71	33.3			281.3	2400	2-03-71	77.4	262.2	5100				
3-31-71	30.3			284.3	2400	3-03-71	82.0	257.6	5100				
4-30-71	32.7			281.9	2400	4-14-71	73.0	266.6	5100				
6-01-71	37.8			276.8	2400	4-28-71	71.8	267.8	5100				
7-02-71 (2)	41.4			273.2	2400	6-09-71	76.2	263.4	5100				
7-30-71	41.7			272.9	2400	7-07-71	80.1	259.5	5100				
09S/02E-02J02M	287.6	8-30-71	36.3	278.3	2400	8-04-71	84.8	254.8	5100				
		12-10-70	18.3	269.3	2400	9-01-71	85.0	254.6	5100				
		3-03-71	18.2	269.4	2400	03S/01E-09R02M	353.2	10-14-70	139.5	213.7	5100		
		4-02-71	19.2	268.4	2400			3-03-71	95.2	258.0	5100		
		5-03-71	19.2	268.4	2400			03S/01E-10Q02M	368.7	10-14-70	135.0	233.7	5100
		6-01-71	22.0	265.6	2400	3-03-71	107.0			261.7	5100		
		7-02-71	25.6	262.0	2400	03S/01E-11H01M	372.9			10-00-70	138.0	234.9	5100
		8-02-71	26.6	261.0	2400			4-00-71	120.3	252.6	5100		
		9-01-71 (4)	28.2	259.4	2400			9-00-71	144.5	228.4	5100		
LIVERMORE VALLEY 2-10.00						03S/01E-12P01M	404.0	10-00-70 (1)	195.3	208.7	5100		
02S/01E-31E01M	340.0	10-00-70	30.7	309.3	5100			4-00-71	150.0	254.0	5100		
		4-00-71	17.1	322.9	5100			9-00-71	168.9	235.1	5100		
		9-00-71	28.2	311.8	5100	03S/01E-13P01M	396.5	10-00-70 (1)	148.6	247.9	5100		
02S/02E-21F01M	580.0	10-00-70	50.6	529.4	5100			4-00-71	138.4	258.1	5100		
		4-00-71	45.5	534.5	5100			9-00-71	139.9	256.6	5100		
		9-00-71	48.5	531.5	5100	03S/01E-14F01M	379.2	10-00-70	72.4	306.8	5100		
02S/02E-22N02M	545.0	10-00-70	24.6	520.4	5100			4-00-71	69.7	309.5	5100		
		4-00-71	24.1	520.9	5100			9-00-71	90.1	289.1	5100		
		9-00-71	24.7	520.3	5100	03S/01E-15L01M	363.0	10-00-70 (1)	127.5	235.5	5100		
02S/02E-27K01M	520.0	10-00-70	11.1	508.9	5100			4-00-71	80.7	282.3	5100		
		4-00-71	8.7	511.3	5100			9-00-71	106.4	256.6	5100		
		9-00-71	11.3	508.7	5100	03S/01E-16D02M	339.4	10-14-70	104.2	235.2	5100		
02S/02E-28J01M	520.0	10-00-70	7.8	512.2	5100			11-25-70	99.2	240.2	5100		
		4-00-71	6.8	513.2	5100			12-09-70	97.5	241.9	5100		
		9-00-71	24.1	495.9	5100			1-06-71	92.4	247.0	5100		
02S/02E-29A02M	552.0	10-00-70	(0)		5100			2-03-71	85.8	253.6	5100		
		02S/02E-29A03M	552.0	10-00-70	31.4			520.6	5100	3-03-71	81.2	258.2	5100
				4-00-71	29.0			523.0	5100	4-14-71	80.0	259.4	5100
9-00-71 (1)	30.9			521.1	5100	4-28-71	78.2	261.2	5100				
02S/02E-32C01M	520.0	10-00-70	24.7	495.3	5100	6-09-71	84.0	255.4	5100				
		4-00-71	23.9	496.1	5100	7-07-71	88.3	251.1	5100				
		9-00-71	(7)		5100	8-04-71	91.0	248.4	5100				
02S/02E-35F01M	522.0	10-00-70	14.6	507.4	5100	9-01-71	93.7	245.7	5100				
		4-00-71	12.2	509.8	5100								
		9-00-71	13.5	508.5	5100								
02S/02E-36F01M	533.0	10-00-70	28.0	505.0	5100								
		4-00-71	27.0	506.0	5100								
		9-00-71	26.2	506.8	5100								

TABLE C-2 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LIVERMORE VALLEY 2-10.00 (Continued)						LIVERMORE VALLEY 2-10.00 (Continued)					
03S/01E-16D06M	339.4	10-14-70	110.7	228.7	5100	03S/02E-06P01M	414.0	10-00-70	41.0	373.0	5100
		11-25-70	99.0	240.4	5100			4-00-71	37.0	377.0	5100
		12-09-70	98.2	241.2	5100			9-00-71	36.5	377.5	5100
		1-06-71	89.4	250.0	5100	03S/02E-07P02M	440.0	10-00-70	111.6	328.4	5100
		2-03-71	84.5	254.9	5100			4-00-71	97.6	342.4	5100
		3-03-71	81.3	258.1	5100			9-00-71	112.1	327.9	5100
		4-14-71	81.2	258.2	5100	03S/02E-08H01M	472.5	10-00-70	134.0	338.5	5100
		4-28-71	81.9	257.5	5100			4-00-71	71.8	400.7	5100
		6-09-71	88.7	250.7	5100			9-00-71	88.0	384.5	5100
		7-07-71	96.2	243.2	5100	03S/02E-08P02M	465.0	10-14-70	84.0	381.0	5100
		8-04-71	100.7	238.7	5100			3-03-71	67.5	397.5	5100
		9-01-71	104.6	234.8	5100	03S/02E-09Q01M	518.0	10-00-70	154.0	364.0	5100
03S/01E-16D07M	339.4	10-14-70	115.3	224.1	5100			4-00-71	93.0	425.0	5100
		11-25-70	101.3	238.1	5100			9-00-71	125.6	392.4	5100
		12-09-70	101.3	238.1	5100	03S/02E-11R03M	600.0	10-00-70	120.0	480.0	5100
		1-06-71	90.6	248.8	5100			4-00-71	114.0	486.0	5100
		2-03-71	85.3	254.1	5100			9-00-71	113.7	486.3	5100
		3-03-71	82.6	256.8	5100	03S/02E-11R04M	600.0	10-00-70	87.4	512.6	5100
		4-14-71	83.1	256.3	5100			4-00-71	(0)	5100	5100
		4-28-71	82.3	257.1	5100	03S/02E-14Q01M	649.0	10-00-70	10.5	638.5	5100
		6-09-71	93.6	245.8	5100			4-00-71	7.4	641.6	5100
		7-07-71	101.2	238.2	5100			9-00-71	12.4	636.6	5100
		8-04-71	104.4	235.0	5100	03S/02E-15B04M	549.0	10-00-70	56.6	492.4	5100
		9-01-71	109.3	230.1	5100			4-00-71	41.7	507.3	5100
03S/01E-16R01M	358.0	10-00-70	126.3	231.7	5100			9-00-71	53.3	495.7	5100
		4-00-71	68.5	289.5	5100	03S/02E-15R01M	599.0	10-00-70	13.0	586.0	5100
		9-00-71	97.4	260.6	5100			4-00-71	7.8	591.2	5100
03S/01E-18A01M	320.0	10-14-70	72.0	248.0	5100			9-00-71	15.8	583.2	5100
		11-25-70	84.0	236.0	5100	03S/02E-16E02M	508.0	10-14-70	98.8	409.2	5100
		12-09-70 (1)	78.0	242.0	5100			11-25-70	92.4	415.6	5100
		1-06-71	91.0	229.0	5100			12-09-70	97.9	410.1	5100
		2-03-71	64.0	256.0	5100			1-06-71	92.4	415.6	5100
		3-03-71	64.0	256.0	5100			2-03-71	93.1	414.9	5100
		4-14-71 (1)	66.0	254.0	5100			3-03-71	92.7	415.3	5100
		4-28-71	62.0	258.0	5100			4-14-71	92.9	415.1	5100
		6-09-71	69.0	251.0	5100			4-28-71	91.9	416.1	5100
		7-07-71	72.0	248.0	5100			6-09-71 (1)	111.7	396.3	5100
		8-04-71	70.0	250.0	5100			7-07-71 (1)	121.4	386.6	5100
		9-01-71	69.6	250.4	5100			8-04-71 (1)	99.5	408.5	5100
03S/01E-18M05M	320.0	10-00-70	86.7	233.3	5100			9-01-71	93.7	414.3	5100
		4-00-71	76.2	243.8	5100	03S/02E-16N01M	530.0	10-00-70	145.6	384.4	5100
		9-00-71	71.3	248.7	5100			4-00-71	144.8	385.2	5100
03S/01E-19A03M	328.0	10-14-70	83.2	244.8	5100			9-00-71	127.2	402.8	5100
		11-25-70	85.7	242.3	5100	03S/02E-19D01M	411.6	10-14-70	183.0	228.6	5100
		12-09-70	84.5	243.5	5100			11-25-70	171.4	240.2	5100
		1-06-71	70.7	257.3	5100			12-09-70	165.3	246.3	5100
		2-03-71	66.1	261.9	5100			1-06-71	157.2	254.4	5100
		3-03-71	71.4	256.6	5100			2-03-71	151.0	260.6	5100
		4-14-71	74.5	253.5	5100			3-03-71	146.7	264.9	5100
		4-28-71	74.9	253.1	5100			4-14-71	143.2	268.4	5100
		6-09-71	68.6	259.4	5100			4-28-71	143.2	268.4	5100
		7-07-71	70.8	257.2	5100			6-09-71	145.5	266.1	5100
		8-04-71	75.4	252.6	5100			7-07-71	153.0	258.6	5100
		9-01-71	75.4	252.6	5100			8-04-71	163.8	247.8	5100
03S/01E-20B02M	340.0	10-14-70 (1)	108.0	232.0	5100			9-01-71	174.0	237.6	5100
		3-03-71	77.5	262.5	5100	03S/02E-19H03M	460.0	10-00-70	95.0	365.0	5100
03S/01E-23J01M	435.0	10-00-70 (1)	91.0	344.0	5100			4-00-71	94.9	365.1	5100
		4-00-71	76.0	359.0	5100			9-00-71	96.9	363.1	5100
		9-00-71	79.0	356.0	5100	03S/02E-22H02M	620.0	10-00-70	41.3	578.7	5100
03S/01E-24R01M	421.9	10-00-70	18.0	403.9	5100			4-00-71	20.0	600.0	5100
		4-00-71	15.0	406.9	5100			9-00-71	26.2	593.8	5100
		9-00-71	18.7	403.2	5100	03S/02E-22M01M	605.0	10-00-70	154.5	450.5	5100
03S/01E-29E03M	311.0	10-00-70	47.2	263.8	5100			4-00-71	149.5	455.5	5100
		4-00-71	46.0	265.0	5100			9-00-71	145.1	459.9	5100
		9-00-71	46.9	264.1	5100	03S/02E-26J01M	720.0	10-00-70	26.5	693.5	5100
03S/02E-01G01M	580.0	10-00-70	87.7	492.3	5100			4-00-71	19.5	700.5	5100
		4-00-71	81.5	498.5	5100			9-00-71	23.5	696.5	5100
		9-00-71	79.7	500.3	5100	03S/02E-28P01M	505.0	10-00-70	18.0	487.0	5100
03S/02E-03K01M	520.2	10-00-70	51.2	469.0	5100			4-00-71	17.0	488.0	5100
		4-00-71	48.2	472.0	5100			9-00-71	17.0	488.0	5100
		9-00-71	51.7	468.5	5100						
03S/02E-03P01M	545.0	10-00-70	69.3	475.7	5100						
		4-00-71	53.3	491.7	5100						
		9-00-71	64.3	480.7	5100						

TABLE C-2 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LIVERMORE VALLEY 2-10.00 (Continued)						PAJARO VALLEY 3-02.00 (Continued)					
03S/02E-29D01M	466.4	10-00-70	62.9	403.5	5100	13S/02E 06E03M	34.4	11-19-70	29.8	4.6	2100
		4-00-71	56.1	410.3	5100			1-00-71	26.0	8.4	2100
		9-00-71	68.4	398.0	5100			2-00-71	26.0	8.4	2100
								3-00-71	26.3	8.1	2100
03S/02E-29P01M	476.6	10-00-70	9.5	467.1	5100	GILROY-HOLLISTER VALLEY 3-03.00					
		4-00-71	9.6	467.0	5100	SOUTH SANTA CLARA COUNTY 3-03.01					
		9-00-71	12.3	464.3	5100	09S/03E-16J01M	385.7	9-08-70	87.6	298.1	2400
03S/03E-07M02M	625.0	10-00-70	52.7	572.3	5100			3-05-71	41.6	344.1	2400
		4-00-71	52.2	572.8	5100	09S/03E-21K02M	361.6	10-09-70	55.4	306.2	2400
		9-00-71	50.4	574.6	5100			3-05-71	54.7	306.9	2400
03S/03E-17N01M	860.0	10-00-70	45.0	815.0	5100	09S/03E-22B03M	379.1	9-01-70	80.4	298.7	2400
		4-00-71	33.4	826.6	5100			3-31-71	78.5	300.6	2400
		9-00-71	43.6	816.4	5100	09S/03E-23E01M	362.5	9-04-70	97.6	264.9	2400
03S/03E-19D01M	712.0	10-00-70	(7)		5100			3-05-71	73.6	288.9	2400
		4-00-71	(7)		5100	09S/03E-26P01M	329.1	10-05-70	61.9	267.2	2400
		9-00-71	32.6	679.4	5100			4-06-71	46.2	282.9	2400
03S/01W-01B01M	332.0	10-00-70	42.0	290.0	5100	09S/03E-29B01M	397.6	10-16-70	13.4	384.2	5050
		4-00-71	30.3	301.7	5100			5-03-71	9.3	388.3	5050
		9-00-71	50.0	282.0	5100	09S/03E-34Q01M	314.2	10-05-70	38.1	276.1	2400
03S/01W-02A01M	370.0	10-00-70	40.0	330.0	5100			3-05-71	25.2	289.0	2400
		4-00-71	27.2	342.8	5100	09S/03E-36F03M	322.0	9-04-70	86.5	235.5	2400
		9-00-71	35.0	335.0	5100			3-05-71	67.3	254.7	2400
03S/01W-02R01M	380.0	10-00-70	13.8	366.2	5100	10S/03E-02K03M	290.0	10-16-70	51.2	238.8	5050
		4-00-71	12.8	367.2	5100			5-03-71	34.2	255.8	5050
		9-00-71	15.3	364.7	5100	10S/03E-13J03M	251.0	10-15-70	56.9	194.1	5050
03S/01W-12G03M	320.0	10-00-70	14.4	305.6	5100			5-03-71	32.9	218.1	5050
		4-00-71	7.9	312.1	5100	10S/03E-36E03M	220.0	10-16-70	(7)		5050
								5-03-71	(7)		5050
CENTRAL COASTAL REGION 3-00.00						10S/04E-18C02M	259.5	10-15-70	58.4	201.1	5050
PAJARO VALLEY 3-02.00								5-03-71	42.4	217.1	5050
11S/02E-27A01M	141.0	10-16-70	107.5	33.5	5050	10S/04E-35E01M	248.0	10-16-70	(9)		5050
		5-04-71	127.5	13.5	5050			5-03-71	90.5	157.5	5050
12S/01E-24G01M	9.4	10-16-70	(1)		5050	11S/04E-08K02M	179.0	10-16-70	29.7	149.3	5050
		5-04-71	16.8	-7.4	5050			5-03-71	(1)		5050
12S/02E-11E04M	36.0	10-16-70	31.2	4.8	5050	SAN BENITO COUNTY 3-03.02					
		5-04-71	26.2	9.8	5050	11S/05E-13D01M	255.7	10-15-70	22.8	232.9	5050
12S/02E-16J01M	20.5	10-16-70	21.7	-1.2	5050			5-03-71	21.8	233.9	5050
		5-04-71	19.7	0.8	5050	12S/04E-20C01M	152.9	3-00-71	29.5	123.4	5151
12S/02E-31K01M	30.0	11-20-70	30.2	-0.2	2100	12S/05E-10R01M	211.6	10-15-70	78.8	132.8	5050
13S/01E-01A01M	5.0	11-19-70	3.7	1.3	2100			5-03-71	74.6	137.0	5050
13S/02E-06B01M	15.0	10-16-70	(9)		5050	12S/05E-12M04M	215.0	10-15-70	76.4	138.6	5050
		5-04-71	(9)		5050			5-03-71	67.9	147.1	5050
13S/02E-06C01M	26.0	10-00-70	(1)		2100	12S/05E-33A02M	280.0	10-15-70	78.0	202.0	5050
		11-00-70	24.2	1.8	2100			5-03-71	76.0	204.0	5050
		12-00-70	(7)		2100	12S/05E-35N02M	303.0	10-15-70	96.4	206.6	5050
		1-00-71	21.2	4.8	2100			5-03-71	111.4	191.6	5050
		2-00-71	21.1	4.9	2100	13S/05E-11Q01M	325.5	3-00-71	27.1	298.4	5151
		3-00-71	(1)		2100	SALINAS VALLEY 3-04.00					
		4-00-71	21.2	4.8	2100	PRESSURE AREA 180-FOOT AQUIFER 3-04.01					
		5-00-71	23.0	3.0	2100	14S/02E-03C01M	10.6	11-20-70	17.7	-7.1	2100
		6-00-71	23.9	2.1	2100			1-00-71	35.0	7.0	2100
		7-00-71	24.3	1.7	2100	15S/02E-01Q01M	42.0	2-00-71	33.2	8.8	2100
		8-00-71	(1)		2100			3-00-71	31.0	11.0	2100
		9-00-71	27.0	-1.0	2100			7-00-71	62.7	-20.7	2100
13S/02E-06E02M	27.8	10-00-70	(1)		2100						
		11-00-70	24.0	3.8	2100						
		12-00-70	(7)		2100						
		1-00-71	22.0	5.8	2100						
		2-00-71	21.7	6.1	2100						
		3-00-71	20.8	7.0	2100						
		4-00-71	21.3	6.5	2100						
		5-00-71	25.4	2.4	2100						
		6-00-71	25.9	1.9	2100						
		7-00-71	30.1	-2.3	2100						
		8-00-71	(1)		2100						
		9-00-71	(1)		2100						

TABLE C-2 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PRESSURE AREA 180-FOOT AQUIFER 3-04.01 (Continued)						UPPER VALLEY AREA 3-04.05 (Continued)					
15S/03E-16M01M	58.0	10-00-70	53.0	5.0	2100	21S/09E-07J02M	364.0	10-00-70	24.0	340.0	2100
		11-00-70	(7)		2100			11-00-70	23.9	340.1	2100
		12-03-70	40.0	18.0	2100			1-00-71	23.6	340.4	2100
		1-00-71	31.5	26.5	2100			2-00-71	23.7	340.3	2100
		2-00-71	34.4	23.6	2100			3-00-71	22.0	342.0	2100
		3-00-71	35.5	22.5	2100			4-00-71	(1)		2100
		4-00-71	54.3	3.7	2100			6-00-71	24.0	340.0	2100
		5-00-71	55.7	2.3	2100			8-00-71	(1)		2100
		6-00-71	57.9	0.1	2100			9-00-71	25.0	339.0	2100
		7-00-71	68.0	-10.0	2100						
8-00-71	67.0	-9.0	2100	21S/10E-32N01M	400.0	11-19-70	23.0	377.0	2100		
9-00-71	64.0	-6.0	2100								
15S/04E-33A01M	125.0	12-10-70	(4)		2100	22S/10E-16K01M	472.0	11-19-70	71.4	400.6	2100
16S/04E-11D01M	110.0	11-24-70	(4)		2100	PASO ROBLES BASIN 3-04.06					
PRESSURE AREA 400-FOOT AQUIFER 3-04.01						24S/11E-25N01M	603.3	2-01-71	36.8	566.5	5117
13S/02E-31Q01M	11.0	11-20-70	15.8	-4.8	2100			4-19-71	36.8	566.5	5117
		12-00-70	(7)		2100	24S/11E-33R01M	565.0	2-01-71	31.0	534.0	5117
14S/03E-18J01M	69.0	10-00-70	86.8	-17.8	2100			4-19-71	31.0	534.0	5117
		11-27-70	77.0	-8.0	2100	24S/11E-35D01M	572.1	12-01-70	31.0	541.1	5117
		12-00-70	(7)		2100			4-19-71	31.0	541.1	5117
		1-00-71	67.0	2.0	2100	24S/11E-35J01M	616.8	4-19-71	59.8	557.0	5117
		2-00-71	67.3	1.7	2100	24S/15E-27L01M	1211.5	11-12-70	21.4	1190.1	5117
		3-00-71	70.0	-1.0	2100			4-02-71	16.5	1195.0	5117
		4-00-71	72.2	-3.2	2100	24S/15E-33C02M	1225.0	11-12-70	25.0	1200.0	5117
		5-00-71	(1)		2100			4-21-71	22.6	1202.4	5117
		6-00-71	96.0	-27.0	2100	25S/11E-35G01M	895.0	10-27-70	65.0	830.0	5117
		7-00-71	(7)		2100			4-16-71	58.5	836.5	5117
8-00-71	101.6	-32.6	2100	25S/11E-36N02M	837.5	10-27-70	47.0	790.5	5117		
9-00-71	98.8	-29.8	2100			4-16-71	42.5	795.0	5117		
EAST SIDE AREA 3-04.02						25S/12E-17J01M	640.0	10-28-70	21.0	619.0	5117
16S/05E-17R01M	181.0	11-22-70	107.5	73.5	2100			4-16-71	2.0	638.0	5117
						25S/12E-17R01M	640.0	10-28-70	39.0	601.0	5117
ARROYO SECO CONE 3-04.04								4-16-71	10.0	630.0	5117
18S/06E-15M01M	277.0	10-00-70	94.0	183.0	2100	25S/12E-26K01M	749.0	4-21-71	114.0	635.0	5117
		11-00-70	99.5	177.5	2100			5-25-71	128.0	621.0	5117
		2-00-71	88.0	189.0	2100			8-24-71	192.1	556.9	5117
		3-00-71	89.9	187.1	2100	25S/12E-28N01M	639.0	10-30-70	22.5	616.5	5117
		4-00-71	(1)		2100			4-21-71	12.4	626.6	5117
		5-00-71	90.9	186.1	2100	25S/13E-11E01M	1185.0	10-30-70	56.1	1128.9	5117
		6-00-71	95.9	181.1	2100			4-21-71	(4)		5117
		7-00-71	99.1	177.9	2100	25S/13E-19R01M	915.0	10-30-70	174.7	740.3	5117
		8-00-71	(1)		2100			4-02-71	176.2	738.8	5117
		9-00-71	103.0	174.0	2100	25S/16E-17L01M	1164.5	11-12-70	27.3	1137.2	5117
19S/06E-11C01M	373.0	10-00-70	188.0	185.0	2100			4-21-71	27.2	1137.3	5117
		11-00-70	177.0	196.0	2100	26S/12E-04N01M	675.0	10-24-70	45.9	629.1	5117
		1-00-71	156.6	216.4	2100			4-16-71	42.7	632.3	5117
		2-00-71	155.5	217.5	2100	26S/12E-26E01M	840.0	10-30-70	195.0	645.0	5117
		3-00-71	(1)		2100			4-16-71	191.5	648.5	5117
		4-00-71	(1)		2100	26S/13E-05F01M	740.0	10-30-70	(1)		5117
		5-00-71	151.1	221.9	2100			4-21-71	15.5	724.5	5117
		6-00-71	(1)		2100	26S/13E-10D01M	800.0	10-30-70	74.0	726.0	5117
		7-00-71	158.5	214.5	2100			4-21-71	56.4	743.6	5117
		8-00-71	183.6	189.4	2100	26S/14E-17L01M	949.0	10-30-70	36.0	913.0	5117
9-00-71	186.0	187.0	2100			4-07-71	40.6	908.4	5117		
UPPER VALLEY AREA 3-04.05						26S/14E-18Q01M	930.0	10-30-70	46.4	883.6	5117
19S/07E-10P01M	315.0	10-00-70	81.5	233.5	2100			4-07-71	32.5	897.5	5117
		11-00-70	82.5	232.5	2100	26S/14E-24B01M	1000.0	11-17-70	157.0	843.0	5117
		1-00-71	78.2	236.8	2100			4-07-71	67.5	932.5	5117
		2-00-71	80.8	234.2	2100	26S/14E-35D01M	1135.0	11-19-70	117.5	1017.5	5117
		3-00-71	81.0	234.0	2100			4-23-71	116.5	1018.5	5117
		4-00-71	90.4	224.6	2100						
		5-00-71	87.6	227.4	2100						
		6-00-71	91.4	223.6	2100						
		7-00-71	95.0	220.0	2100						
		8-00-71	96.7	218.3	2100						
9-00-71	93.5	221.5	2100								
20S/08E-05R03M	337.0	1-00-71	67.4	269.6	2100						
		2-00-71	67.0	270.0	2100						
		3-00-71	(1)		2100						
		4-00-71	70.4	266.6	2100						

TABLE C-2 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PASO ROBLES BASIN 3-04.06 (Continued)						CARMEL VALLEY 3-07.00					
26S/15E-16P02M	1047.0	11-12-70 4-07-71	31.5 50.2	1015.5 996.8	5117 5117	16S/01E-16L01M	75.0	10-00-70 12-00-70 2-00-71 3-00-71 4-00-71 5-00-71 6-00-71 7-00-71 8-00-71 9-00-71	18.3 19.3 17.4 17.3 18.7 21.0 18.3 23.7 (1) 19.2	56.7 55.7 57.6 57.7 56.3 54.0 56.7 51.3 2100 55.8	2100 2100 2100 2100 2100 2100 2100 2100 2100
26S/15E-21P01M	1072.0	11-17-70 2-18-71 4-02-71 5-02-71 7-16-71	47.0 36.4 56.0 67.0 70.0	1025.0 1035.6 1016.0 1005.0 1002.0	5117 5117 5117 5117 5117	16S/01E-22E01M	82.0	2-00-71 3-00-71 4-00-71 5-00-71 6-00-71 7-00-71 8-00-71 9-00-71	27.1 26.7 28.2 (1) 27.5 28.3 29.5 30.0	54.9 55.3 53.8 2100 54.5 53.7 52.5 52.0	2100 2100 2100 2100 2100 2100 2100
26S/15E-28Q01M	1090.0	10-23-70 11-17-70	78.0 61.0	1012.0 1029.0	5117 5117	16S/01E-23F01M	109.0	10-00-70 12-00-70 2-00-71 3-00-71 4-00-71 5-00-71 6-00-71 7-00-71 8-00-71 9-00-71	29.0 30.3 27.3 27.7 27.4 25.8 27.2 26.7 30.1 34.1	80.0 78.7 81.7 81.3 81.6 83.2 81.8 82.3 78.9 74.9	2100 2100 2100 2100 2100 2100 2100 2100 2100
26S/15E-29N01M	1133.0	12-10-70 1-20-71 2-23-71 4-23-71 7-16-71 8-25-71	84.0 78.0 76.5 90.0 122.0 126.9	1049.0 1055.0 1056.5 1043.0 1011.0 1006.1	5117 5117 5117 5117 5117 5117	16S/01E-25B01M	140.0	10-00-70 12-00-70 2-00-71 3-00-71 4-00-71 5-00-71 7-00-71 8-00-71 9-00-71	16.5 18.5 16.8 16.7 16.6 17.0 17.0 (1) (1)	123.5 121.5 123.2 123.3 123.4 123.0 123.0 2100 2100	2100 2100 2100 2100 2100 2100 2100 2100
27S/12E-04F04M	701.0	10-27-70	19.8	681.2	5117						
27S/12E-21C01M	741.0	10-27-70	16.4	724.6	5117						
27S/13E-24N01M	1030.0	1-20-71 2-23-71 4-22-71	16.5 15.6 43.0	1013.5 1014.4 987.0	5117 5117 5117						
27S/13E-33L01M	1180.0	11-19-70 1-20-71 2-23-71 8-25-71	134.0 108.0 107.0 107.5	1046.0 1072.0 1073.0 1072.5	5117 5117 5117 5117						
27S/15E-03E01M	1120.0	11-17-70 1-20-71 2-18-71 4-22-71 5-23-71 7-16-71 8-25-71	62.2 58.1 57.2 72.7 75.8 110.2 96.7	1057.8 1061.9 1062.8 1047.3 1044.2 1009.8 1023.3	5117 5117 5117 5117 5117 5117 5117						
27S/15E-10R02M	1130.0	4-23-71	(1)		5117						
27S/16E-07P01M	1225.0	11-17-70 4-26-71	66.0 63.0	1159.0 1162.0	5117 5117						
27S/16E-35Q01M	1281.0	11-17-70 4-26-71	13.0 12.0	1268.0 1269.0	5117 5117						
28S/12E-25R01M	877.0	10-26-70 4-13-71	21.3 11.0	855.7 866.0	5117 5117						
28S/13E-04K01M	1199.5	11-19-70 4-22-71	54.8 46.5	1144.7 1153.0	5117 5117						
28S/13E-04K02M	1195.0	11-19-70 4-22-71	116.0 80.1	1079.0 1114.9	5117 5117						
28S/13E-31K01M	884.8	10-26-70 4-13-71	25.0 4.0	859.8 880.8	5117 5117						
28S/16E-23M01M	1440.0	11-17-70 4-26-71	33.7 31.7	1406.3 1408.3	5117 5117						
29S/13E-05F03M	915.6	10-26-70 4-13-71	17.6 13.5	898.0 902.1	5117 5117						
29S/13E-05K02M	928.5	10-26-70 4-13-71	15.0 17.8	913.5 910.7	5117 5117						
29S/13E-06A01M	920.0	10-26-70 4-13-71	64.0 40.0	856.0 880.0	5117 5117						
29S/13E-08M01M	945.0	10-26-70	11.5	933.5	5117						
29S/13E-19H01M	1002.1	10-26-70 4-12-71	16.5 7.5	985.6 994.6	5117 5117						
SEASIDE AREA 3-04.08											
14S/02E-31M01M	119.9	10-09-70 4-18-71 5-18-71	131.8 123.5 125.5	-11.9 -3.6 -5.6	5005 5005 5005						
15S/01E-14N01M	144.6	10-09-70 4-18-71 5-18-71	128.1 120.6 126.0	16.5 24.0 18.6	5005 5005 5005						

Appendix D: SURFACE WATER QUALITY



INTRODUCTION

This appendix contains surface water quality data collected from October 1, 1970, through September 30, 1971. The data were collected from 74 stream and estuarine stations in the Central Coastal Area by the U. S. Bureau of Reclamation, the U. S. Geological Survey, Santa Cruz County, and the Department of Water Resources. Only those stations from which data are collected routinely are shown on Figure D-1. The U. S. Bureau of Reclamation data were collected for its Delta-San Luis Drainage Surveillance Program and are basically confined to the Sacramento-San Joaquin Delta and Suisun Bay, the latter being included in this report.

The Department of Water Resources Laboratory uses procedures from "Standard Methods for the Examination of Water and Wastewater", 13th Edition, 1971, for the determination of mineral, nutrient, and biological constituents. Pesticides are determined in accordance with the "Guide to the Analysis of Pesticide Residues", U. S. Department of Health, Education and Welfare, 1965.

The U. S. Air Force at McClellan Air Force Base provides laboratory services for the Bureau of Reclamation. It uses procedures in accordance with the "FWPCA Methods for Chemical Analysis of Water and Wastes", November 1968, for all parameters.

Two numbering systems are used in this bulletin for identifying water quality stations. The first is for those stations for which the flow of water can be measured readily, as in streams and rivers. This system is described in Department of Water Resources Bulletin No. 157, "Index of Stream Gaging Stations in and Adjacent to California, 1970".

The second numbering system is used for those stations located in broad water bodies. This system is described as follows: The first two digits identify the hydrographic area as shown on the next page. The third digit identifies the type of water body, and for this publication is a "B" for Bay, "D" for Delta, "O" for Ocean, and "S" for Slough. The next digit is the last digit of the latitude in degrees, "3" for 33°, or "9" for 29°. The next three digits are the minutes of latitude to the tenth of a minute. The last four digits are longitude in the same manner as latitude.

Example: E0 B 807.3 145.6

E0	San Francisco Bay
B	Water Body -- Bay
8	28° Latitude
07.3	07.3 Minutes Latitude
1	121° Longitude
45.6	45.6 Minutes Longitude

TABLE D-1
SAMPLING STATION DATA AND INDEX

Station	Station Number	Location		Beginning of Record	Frequency of Sampling	Data on pages indicated													
		Latitude	Longitude			Tables													
		° ' "	° ' "			D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9						
APTOS CREEK BELOW VALENCIA CREEK AT APTOS	D0 2020.00	36 58 26	121 54 10	March 1970	Semiannually	46	60	75											
ARROYO SECO NEAR SOLEDAD	D2 1450.00	36 16 42	121 19 30	April 1969	Bimonthly	47	62		81										
ARROYO VALLE NEAR LIVERMORE	E5 1400.00	37 37 24	121 45 28	March 1950	Special	57	72												
BIG RIVER NEAR MENDOCINO	F8 2720.00	39 18 48	123 42 12	Jan. 1959	Bimonthly	57													
BLANCO DRAIN AT PUMP LIFT	D2 1030.30	36 42 36	121 44 36	May 1970	Continuous		62	80		84									
BODFISH CREEK AT HIGHWAY 152	D1 1330.00	37 00 48	121 37 54	April 1969	Special	47													
BRANCIFORTE CREEK AT SANTA CRUZ	D0 1100.00	36 59 10	122 00 47	March 1970	Semiannually	45	60	75											
CARMEL RIVER AT HIGHWAY 1	D4 1010.50	36 32 12	121 54 42	April 1969	Special	47	63		81										
CARMEL RIVER AT ROBLES DEL RIO	D4 1200.00	36 28 30	121 43 36	Jan. 1959	Semiannually	48	63												
CARNADERO CREEK AT BLOOMFIELD AVENUE	D1 1320.00	36 57 54	121 32 00	April 1969	Special	47													
CARQUINEZ STRAIT AT CROCKETT	E0 B 803.5 213.3	38 03 28	122 13 18	1946	Four-Day														93
CARQUINEZ STRAIT AT MARTINEZ	E0 B 801.9 207.8	38 01 55	122 07 46	1926	Four-Day														93
CHADBOURNE SLOUGH AT CHADBOURNE ROAD	E0 S 811.0 204.8	38 10 57	122 04 50	Jan. 1967	Monthly	55	71	78											
CORDELIA SLOUGH AT CYGNUS	E0 S 809.2 205.3	38 09 10	122 05 19	Jan. 1967	Monthly	54	70	78											
CORDELIA SLOUGH AT UPPER END NEAR CORDELIA	E0 S 811.5 207.2	38 11 27	122 07 09	Sept. 1967	Monthly	56	71	78											
ELKHORN SLOUGH AT BRIDGE NEAR HALL	D1 3220.20	36 51 36	121 40 18	March 1970	Special		61		80										
GREEN VALLEY CREEK AT CORDELIA	E3 2100.51	38 12 42	122 07 47	Dec. 1968	Irregular	57	72	78											
GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH	E0 B 807.0 202.3	38 07 02	122 02 19	Jan. 1968	Semi-monthly	53	69	78											
HILL SLOUGH AT GRIZZLY ISLAND ROAD	E0 S 813.6 201.2	38 13 34	122 01 14	Jan. 1967	Monthly	56	72	78											
HONKER BAY NEAR WHEELER POINT	E0 B 804.4 156.2	38 04 26	121 56 12	Jan. 1968	Semi-monthly	52	68	77	82										
LA BREA CREEK AT HIGHWAY 101	D1 1395.50	36 55 42	121 32 48	April 1969	Special	47													
MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD	E0 S 811.2 158.5	38 11 14	121 58 32	Feb. 1967	Monthly	55	71	78											
NAPA RIVER AT DUTTONS LANDING	E3 1100.50	38 12 28	122 18 20	Sept. 1965	Special	56	78												
NAPA RIVER NEAR NAPA	E3 1250.00	38 22 06	122 18 08	Nov. 1929	Monthly	56	72												
NAVARRO RIVER NEAR NAVARRO	F8 2100.00	39 10 15	123 39 55	Jan. 1959	Bimonthly	57	72												
NOYO RIVER NEAR FORT BRAGG	F8 3100.00	39 25 40	123 44 10	Jan. 1951	Bimonthly	58	73												
PAJARO RIVER NEAR CHITTENDEN	D1 1250.00	36 54 00	121 35 54	Dec. 1951	Continuous	46	61		80	86									
PAJARO RIVER AT THURWACHTER ROAD	D1 1075.30	36 52 48	121 47 30	May 1970	Special	61	80												
PESCADERO CREEK ABOVE MATFIELD CANYON	D1 1269.30	36 57 30	121 37 06	Aug. 1971	Special	47													
PESCADERO CREEK AT S.P.R.R.	D1 1261.30	36 54 06	121 35 06	Dec. 1970	Special	47													
PLANEL AGRICULTURAL DRAIN ABOVE LLAGAS CREEK	D1 1475.50	36 58 36	121 30 36	May 1971	Special		61		80										
RUSSIAN RIVER NEAR GUERNEVILLE	F9 1100.00	38 30 00	122 56 05	Nov. 1969	Monthly	58	73			90									
RUSSIAN RIVER NEAR HOPLAND	F9 1765.00	39 01 35	123 07 45	April 1951	Special	58	73												
RUSSIAN RIVER NEAR UKIAH	F9 1850.00	39 12 07	123 11 56		Special	58	73												
SACRAMENTO RIVER AT CHIPPS ISLAND	E0 B 802.8 155.0	38 02 47	121 55 02	Jan. 1968	Semi-monthly	51	66	77											
SACRAMENTO RIVER AT COLLINSVILLE	B9 D 804.4 151.0	38 04 27	121 50 58	July 1958	Four-Day														93
SACRAMENTO RIVER AT PITTSBURG	B9 D 802.3 153.0	38 02 18	121 52 58	1945	Four-Day														93
SALINAS RECLAMATION CANAL AT AIRPORT WAY	D2 1020.70	36 39 42	121 37 18	May 1970	Special		62		80										
SALINAS RECLAMATION CANAL AT ALISAL S.T.P.	D2 1016.50	36 40 06	121 38 06	May 1969	Continuous														88
SALINAS RECLAMATION CANAL BELOW ALISAL SLOUGH	D2 1009.20	36 44 30	121 44 18	Sept. 1970	Special		62		80										
SALINAS RIVER AT PASO ROBLES	D3 1450.00	35 37 42	120 41 06	April 1951	Annually	48													
SALINAS RIVER AT TWIN BRIDGES	D2 1110.50	36 44 00	121 46 42	May 1971	Special		62		81										
SALINAS RIVER NEAR BRADLEY	D2 1850.00	35 55 42	120 52 00	July 1958	Semiannually	47	63		81										
SALINAS RIVER NEAR GONZALES	D2 1325.10	36 29 12	121 28 06	May 1969	Continuous	47	62		81	83	89								
SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL	D1 2450.00	36 36 30	121 12 00	July 1958	Semiannually	47	61		80										
SAN FRANCISCO BAY AT SAN MATEO BRIDGE	E0 B 736.2 211.6	37 36 14	122 11 34	Oct. 1964	Monthly	48	63	75	81										91
SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	E0 B 736.2 212.0	37 36 10	122 12 00	June 1971	Monthly	48	63	75	81										91
SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	E0 B 735.0 215.0	37 35 01	122 14 59	Sept. 1969	Monthly	48	63	75	81										91
SAN FRANCISCO BAY AT TREASURE ISLAND	E0 B 749.2 222.4	37 49 15	122 22 26	July 1965	Monthly	49	64	76	81										91
SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	E0 B 748.1 222.4	37 48 04	122 22 25	Sept. 1969	Monthly	48	63	76	81										91
SAN LORENZO RIVER AT BOULDER CREEK	D0 1498.01	37 06 47	122 06 40	March 1970	Semiannually	46	60	75											
SAN LORENZO RIVER AT PARADISE PARK	D0 1180.01	37 00 37	122 02 34	Sept. 1969	Continuous	45	60	75											85
SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER	E0 B 805.3 226.3	38 05 20	122 26 20	March 1971	Monthly	53	68	77											
SAN PABLO BAY NEAR PINOLE POINT	E0 B 801.8 222.3	38 01 50	122 22 15	March 1971	Monthly	49	64	76											
SAN PABLO BAY NEAR RODEO	E0 B 803.5 217.0	38 03 30	122 17 00	March 1971	Monthly	51	67	77											
SAN PABLO STRAIT WEST OF THE BROTHERS	E0 B 757.7 226.2	37 57 45	122 26 10	Sept. 1969	Monthly	49	64	76	81										92
SARATOGA CREEK AT SARATOGA	E6 5100.00	37 15 17	122 02 17	June 1971	Special	57	72												
SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT	D0 4010.01	37 02 26	122 13 39	March 1970	Semiannually	46	60	75											
SOQUEL CREEK AT SOQUEL	D0 3100.00	36 59 29	121 57 17	Dec. 1951	Semiannually	46	60	75											
SPRIG LAKE OUTFLOW AT HIGHWAY 152	D1 1333.50	37 00 12	121 40 48	April 1969	Special	47													
SUISUN BAY ABOVE AVON PIER	E0 B 803.2 204.8	38 03 13	122 04 48	Sept. 1969	Semiannually	51	67												
SUISUN BAY AT BENICIA (MIDDLE OF PIER)	E0 B 802.5 208.1	38 02 29	122 08 05	March 1969	Irregular	50	66												
SUISUN BAY AT NICHOLS	E0 B 803.0 159.0	38 03 02	121 58 59	Jan. 1945	Four-Day														93
SUISUN BAY AT PORT CHICAGO	E0 B 803.4 202.3	38 03 24	122 02 20	1946	Four-Day														93
SUISUN BAY NEAR PRESTON POINT	E0 B 804.0 203.0	38 03 58	122 03 00	Sept. 1968	Monthly	52	67												
SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	E0 B 802.3 207.1	38 02 20	122 07 06	Feb. 1968	Semi-monthly	50	64	76	81										
SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS	E0 B 803.6 159.3	38 03 36	121 59 20	Jan. 1968	Monthly	52	67												
SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND	E0 S 810.8 202.8	38 10 50	122 02 45	Sept. 1968	Monthly	54	70	78											
TEMLADERO SLOUGH AT HERRITT LAKE DRAIN	D2 1006.60	36 45 06	121 44 12	Aug. 1970	Continuous	62		80	83	87									
TEMLADERO SLOUGH AT NASHUA ROAD	D2 1006.30	36 46 18	121 47 12	May 1970	Special	61		80											
UVAS CREEK NEAR MORGAN HILL BELOW UVAS DAM	D1 1371.50	37 03 36	121 40 18	July 1952	Semiannually	47	61		80										
WALNUT CREEK AT HIGHWAY 4 AT CONCORD	E4 4180.01	37 59 57	122 03 18	June 1971	Special	57	72												



SURFACE WATER OBSERVATION STATIONS 1970-71

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

Lab and Sampler Agency Codes

5000 - U. S. Geological Survey
 5001 - U. S. Bureau of Reclamation
 5006 - McClellan Air Force Base Laboratory
 5050 - Department of Water Resources
 5063 - Santa Cruz County Health Department

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock
 G.H. - Instantaneous gage height in feet above an established datum
 Q - Instantaneous discharge measured in cubic feet per second
 DEPTH - Depth at which sample was collected
 DO - Dissolved oxygen content in milligrams per liter
 SAT - Percent of normal dissolved oxygen saturation
 TEMP - Water temperature in degrees Fahrenheit (F) and Celsius (C)
 PH - Measure of acidity or alkalinity of water
 EC - Electrical conductance in micromhos at 25° C
 TDS - Gravimetric determination of total dissolved solids at 180° C
 SUM - Total dissolved solids by summation of analyzed constituents
 TH - Total hardness
 NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity
 TURB - Jackson Turbidity Units measured with a Hellige Turbidimeter (E) or a Hach Nephelometer (A)
 SAR - Sodium adsorption ratio
 PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter arriving at a percentage. For a partial analysis, an approximate value is determined by multiplying the electrical conductance by 0.01 and using that as the cation or anion sum.

Mineral Constituents

B	-	Boron	K	-	Potassium
CA	-	Calcium	MG	-	Magnesium
CL	-	Chloride	NA	-	Sodium
CO3	-	Carbonate	NO3	-	Nitrate
F	-	Fluoride	SI02	-	Silica
HCO3	-	Bicarbonate	SO4	-	Sulfate

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER						
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB	
		00	1100.00	BRANCIFORTE CREEK AT SANTA CRUZ																	
03/15/71	5063		10.5	54	F	7.5	273	22	7.8	17	--	.0	71	--	17	3.1	--	--	173	87	30E
1530	5050		98	12	C	7.7	262	1.10	.64	.74	--	.00	1.16	--	.48	.05	--	--		29	0.8
								42	24	28			44		18	2					
05/18/71	5063		10.0	62.0F	7.8	422	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1300			102	16.7C																	
09/27/71	5063		9.5	57.0F	8.0	485	44	15	30	--	.0	186	--	29	1.9	--	--	283	172	30E	
1230	5050		92	13.9C	8.1	469	2.20	1.24	1.31	--	.00	3.05	--	.82	.03	--	--		20	1.0	
							47	26	28			65		17	1						
		00	1180.01	SAN LORENZO RIVER AT PARADISE PARK																	
10/06/70	5063		10.5	59	F	7.8	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0950			104	15	C																
10/19/70	5063		13.0	55	F	7.9	325	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1330			122	13	C																
11/05/70	5063		10.0	57	F	7.8	321	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1115			96	14	C																
11/16/70	5063		12.5	49	F	7.9	355	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1045			109	9	C																
11/30/70	5063		10.5	52	F	8.0	245	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1035			95	11	C																
12/14/70	5063		13.5	47	F	7.6	317	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1120			115	8	C																
12/22/70	5063		12.0	50	F	7.7	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1120			106	10	C																
01/11/71	5063		11.5	48	F	7.8	298	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1105			99	9	C																
01/25/71	5063		13.5	48	F	7.9	340	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1100			116	9	C																
02/08/71	5063		13.5	49	F	7.8	355	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1413			118	9	C																
02/23/71	5063		12.0	50	F	8.3	357	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1320			106	10	C																
03/10/71	5063		13.0	49	F	8.0	368	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1305			113	9	C																
03/15/71	5063		10.5	52	F	7.8	289	32	7.6	16	--	.0	100	--	14	.6	--	--	180	111	35E
1200	5050		95	11	C	7.8	297	1.60	.63	.70	--	.00	1.64	--	.39	.01	--	--		30	0.7
								53	21	23			55		13						
04/01/71	5063		10.5	48	F	8.0	329	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1000			90	9	C																
04/12/71	5063		12.0	53	F	8.1	349	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1010			110	12	C																
04/27/71	5063		11.5	57	F	8.2	358	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1230			111	14	C																
05/10/71	5063		11.5	56	F	7.9	362	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0935			110	13	C																
05/18/71	5063		11.5	64.0F	8.1	355	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1220			120	17.8C																	
05/25/71	5063		11.0	58	F	7.9	355	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0945			107	14	C																
06/07/71	5063		11.5	63	F	8.1	372	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1130			119	17	C																
06/23/71	5063		11.0	67	F	8.0	372	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1130			119	19	C																
07/12/71	5063		11.0	72	F	8.2	365	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1400			125	22	C																
07/26/71	5063		10.0	70	F	8.2	360	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1310			112	21	C																
08/09/71	5063		10.0	74	F	8.2	357	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1420			116	23	C																

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR			
		D0	1180.01	SAN LORENZO RIVER AT PARADISE PARK										CONTINUED								
08/26/71 1445	5063		9.5 109	73 23	F C	8.3 350	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09/13/71 1215	5063		11.0 120	68 20	F C	8.1 360	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09/27/71 1010	5063 5050		10.5 98	54.0F 12.2C	7.9 8.0	350 354	38 1.90	9.7 .80	19 .83	-- 23	-- 23	.0 .00	132 2.16	-- 60	24 .68	1.1 .02	-- 1	-- 1	218	135 27	3E 0.7	
		D0	1220.01	ZAYANTE CREEK AT FELTON																		
03/15/71 1110	5063 5050		12.0 107	51 11	F C	7.7 7.9	372 367	40 2.00	9.7 .80	20 .87	-- 24	-- 24	.0 .00	119 1.95	-- 53	4.0 .11	1.2 .02	-- 3	-- 1	223	140 43	550E 0.7
05/18/71 1050	5063		10.5 100	56.0F 13.3C	7.7	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/27/71 0940	5063 5050		10.0 91	52.0F 11.1C	7.8 8.1	380 3770	43 2.15	7.9 .65	25 1.09	-- 3	-- 3	.0 .00	126 2.07	-- 5	26 .73	1.9 .03	-- 2	--	244	140 37	2E 0.9	
		D0	1498.01	SAN LORENZO RIVER AT BOULDER CREEK																		
03/15/71 1000	5063 5050	2.22 3.5	10.5 89	47 8	F C	7.6 7.8	315 306	32 1.60	1.2 .10	17 .74	-- 24	-- 24	.0 .00	98 1.61	-- 52	14 .39	.4 .01	-- 13	--	184	85 5	80E 0.8
05/18/71 1000	5063		10.5 101	57.0F 13.9C	7.9	393	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/27/71 0900	5063 5050		9.0 84	54.0F 12.2C	7.8 8.1	520 514	50 2.50	14 1.18	35 1.52	-- 29	-- 29	.0 .00	184 3.02	-- 58	46 1.30	.7 .01	-- 25	--	296	184 33	15E 1.1	
		D0	2020.00	APTOS CREEK BELOW VALENCIA CREEK AT APTOS																		
03/15/71 1350	5063 5050	3.24 5.3	10.5 96	53 12	F C	8.1 8.3	555 550	49 2.45	23 1.91	39 1.70	-- 31	-- 31	.0 .00	208 3.41	-- 62	25 .71	.4 .01	-- 13	--	346	218 48	100E 1.2
05/18/71 1400	5063		9.5 96	61.0F 16.1C	8.2	660	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/27/71 1350	5063 5050		9.0 87	57.0F 13.9C	8.3 8.4	670 863	70 3.49	33 2.72	66 2.87	-- 33	-- 33	5.0 .17	306 5.02	-- 2	74 2.09	.4 .01	-- 24	--	533	311 51	2E 1.6	
		D0	3100.00	SOQUEL CREEK AT SOQUEL																		
03/15/71 1430	5063 5050	2.86 35	10.5 102	58 14	F C	8.1 8.1	538 525	56 2.79	16 1.37	31 1.35	-- 24	-- 24	.0 .00	174 2.85	-- 51	26 .73	.3 .00	-- 13	--	334	208 66	12E 0.9
05/18/71 1330	5063		10.5 120	72.0F 22.2C	8.2	675	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/27/71 1300	5063 5050	2.48	10.0 107	66.0F 18.9C	8.4 8.5	710 705	70 3.49	25 2.06	44 1.91	-- 25	-- 25	6.0 .20	224 3.67	-- 3	58 1.64	.1 .00	-- 22	--	457	278 84	1E 1.1	
		D0	4010.01	SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT																		
03/15/71 0900	5063 5050		11.0 95	48 9	F C	7.1 7.5	173 212	14 .70	4.9 .40	19 .83	-- 33	-- 33	.0 .00	58 .95	-- 45	23 .65	.2 .00	-- 31	--	124	55 8	15E 1.1
05/18/71 0830	5063		10.0 91	52.0F 11.1C	7.1	420	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/27/71 0750	5063 5050		8.0 73	53.0F 11.7C	7.4 7.8	1150 611	18 .90	12 1.00	78 3.39	-- 55	-- 55	.0 .00	114 1.87	-- 31	101 2.85	.2 .00	-- 47	--	349	95 2	2E 3.5	
		D1	1250.00	PAJARO RIVER AT CHITTENDEN																		
11/05/70 0815	5050 5050	2.34	8.0 79	59.0F 15.0C	8.0 8.0	1510 1650	--	--	171 7.44	-- 45	-- 45	.0 .00	557 9.13	-- 55	185 5.22	-- 32	1.00	--	--	554	--	--
01/07/71 1045	5050 5050	3.12	12.0 98	44.0F 6.7C	8.1 8.0	1000 1000	--	--	83 3.61	-- 36	-- 36	.0 .00	303 4.97	-- 50	80 2.26	-- 23	.50	--	--	377	--	--
03/04/71 1230	5050 5050	2.66	12.1 118	58 14	F C	7.6 7.7	1200 1230	84 4.19	67 5.51	95 4.13	2.1 .05	.0 .00	396 6.49	212 4.41	94 2.65	30.0 .48	.50 19	-- 3	--	800 779	486 161	1.9
05/11/71 0810	5050 5050	2.72	7.9 79	60 16	F C	8.0 8.3	1100 1310	82 4.09	71 5.90	117 5.09	-- 39	-- 39	.0 .00	419 6.87	-- 52	100 2.82	26.0 .42	-- 3	--	500 156	486 161	2.3
07/08/71 1100	5050 5050	2.36	9.6 107	70 21	F C	8.2 8.8	1100 1310	74 3.69	64 5.26	132 5.74	2.8 .07	29 .97	389 6.38	192 4.00	109 3.07	8.5 .14	.60 21	-- 1	--	844 803	440 80	2.7

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DD SAT	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
					PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR
D1 1261.30 PESCADERO CREEK AT S.P.R.R.																				
12/02/70	5050		12.0	50	F	7.5	580	39	16	67	2.9	2.0	187	45	71	5.2	2.00	--	347	162
1510	5050		106	10	C	8.4	611	1.95	1.32	2.91	.07	.07	3.06	.94	2.00	.08	--	342	7	2.3
D1 1269.30 PESCADERO CREEK ABOVE HATFIELD CANYON																				
08/26/71	5050						19	145	2500	40	256	1700	.0	3000	.2	118	--	6770	646	
1310	5050					8.8	10200	.95	11.92	108.75	1.02	8.53	27.86	.00	84.60	.00	--	6914	1177	42.9
D1 1320.00 CARNADERO CREEK AT BLOOMFIELD AVENUE																				
12/04/70	5050		11.1	54	F	7.7	240	30	15	14	--	.0	138	--	14	3.8	.20	--	138	
0935	5050		103	12	C	7.9	323	1.50	1.26	.61	--	.00	2.26	.39	.06	2	--	25	0.5	
D1 1330.00 BODFISH CREEK AT HIGHWAY 152																				
12/04/70	5050		11.9	53	F	7.4	300	29	15	20	--	.0	130	--	22	4.0	.20	--	137	
1010	5050		109	12	C	7.8	354	1.45	1.29	.87	--	.00	2.13	.62	.06	2	--	31	0.7	
D1 1333.50 SPRIG LAKE OUTFLOW AT HIGHWAY 152																				
12/04/70	5050		12.1	52	F	7.3	210	22	14	12	--	.0	103	--	13	2.2	.20	--	113	
1030	5050		110	11	C	7.9	271	1.10	1.16	.52	--	.00	1.69	.37	.04	1	--	29	0.5	
D1 1371.50 UVAS CREEK NR MORGAN HILL BL UVAS DAM																				
03/04/71	5050		13.6	55	F	7.8	250	34	16	9.8	.9	.0	159	24	7.0	.2	.00	--	172	
1345	5050		128	13	C	8.0	318	1.70	1.32	.43	.02	.00	2.61	.50	.20	.00	--	170	21	0.3
07/08/71	5050		10.3	65	F	7.8	230	32	17	8.8	.8	.0	160	24	5.9	.4	.10	--	182	
1300	5050		109	18	C	8.2	314	1.60	1.40	.38	.02	.00	2.62	.50	.17	.01	--	168	19	0.3
D1 1395.50 LA BREA CREEK AT HIGHWAY 101																				
12/03/70	5050		11.2	51	F	7.3	620	37	28	42	--	.0	211	--	54	12.0	.90	--	210	
1535	5050		400	11	C	7.9	584	1.85	2.35	1.83	--	.00	3.46	1.52	.19	3	--	37	1.3	
D1 2450.00 SAN BENITO RIVER NR WILLOW CREEK SCHOOL																				
03/04/71	5050	2.97	11.9	58	F	8.4	1300	23	102	166	3.6	.0	441	295	111	.1	1.30	--	915	
1500	5050		116	14	C	8.3	1470	1.15	8.39	7.22	.09	.00	7.23	6.14	3.13	.00	--	919	116	3.3
07/07/71	5050	3.05	8.8	78	F	8.8	1180	18	109	119	2.6	29	446	238	74	.1	1.30	--	862	
1245	5050		107	26	C	8.7	1330	.90	8.96	5.18	.07	.97	7.31	4.96	2.09	.00	--	810	79	2.3
D2 1325.10 SALINAS RIVER NR GONZALES																				
11/04/70	5050		10.2	58.0F	8.4	470	--	--	38	--	.0	196	--	31	--	.20	--	--	245	
1145	5050		100	14.4C	8.1	585	--	--	1.65	--	.00	3.21	--	.87	--	--	--	--	--	
01/06/71	5050		12.9	44.0F	8.3	950	--	--	65	--	.0	251	--	58	--	.30	--	--	342	
1345	5050		105	6.7C	8.1	877	--	--	2.83	--	.00	4.11	--	1.64	--	--	--	--	--	
03/04/71	5050		11.9	53	F	7.6	1080	114	39	93	4.1	.0	270	301	85	12.0	.30	--	821	
1100	5050		109	12	C	7.7	1190	5.69	3.21	4.05	.10	.00	4.43	6.27	2.40	.19	--	781	224	1.9
05/11/71	5050		10.5	68	F	8.4	600	60	26	54	--	10	187	--	38	1.9	--	--	258	
1200	5050		115	20	C	8.7	682	2.99	2.16	2.35	--	.33	3.06	1.07	.03	--	--	--	88	1.5
07/07/71	5050		8.8	71	F	8.0	280	38	15	21	1.8	.0	152	58	15	.6	.10	--	231	
1520	5050		99	22	C	8.3	400	1.90	1.23	.91	.05	.00	2.49	1.21	.42	.01	--	224	32	0.7
D2 1450.00 ARROYO SECO NR SOLEDAD																				
11/04/70	5050	3.31	7.4	58.0F	7.7	520	--	--	38	--	.0	218	--	20	--	.10	--	--	275	
1045	5050		72	14.4C	8.3	659	--	--	1.65	--	.00	3.57	--	.56	--	--	--	--	--	
01/06/71	5050		14.0	40.0F	7.9	370	--	--	13	--	.0	124	--	7.1	--	.00	--	--	135	
1245	5050		108	4.4C	8.3	309	--	--	.57	--	.00	2.03	--	.20	--	--	--	--	--	
03/04/71	5050	3.80	11.5	54	F	7.8	320	48	12	16	2.0	.0	154	63	7.7	.0	.00	--	244	
1630	5050		107	12	C	8.0	391	2.40	.99	.70	.05	.00	2.52	1.31	.22	.00	--	224	44	0.5
05/11/71	5050	3.72	9.9	69	F	8.2	320	46	12	18	--	6.0	152	--	6.6	.0	--	--	168	
1335	5050		109	21	C	8.6	399	2.30	1.06	.78	--	.20	2.49	.19	.00	--	--	--	34	0.6
07/07/71	5050	3.35	13.3	74	F	8.0	310	53	15	26	2.7	3.0	168	88	10	.0	.10	--	292	
1440	5050		155	23	C	8.4	486	2.64	1.23	1.13	.07	.10	2.75	1.83	.28	.00	--	280	51	0.8
D2 1850.00 SALINAS RIVER NR BRADLEY																				
03/04/71	5050		10.6	56	F	7.8	300	44	13	14	3.1	.0	145	56	10	1.2	.00	--	236	
1735	5050	2075	101	13	C	7.9	378	2.20	1.07	.61	.08	.00	2.38	1.17	.28	.02	--	213	45	0.5
07/07/71	5050	5.67	10.1	65	F	7.4	220	31	13	11	1.0	.0	131	36	7.5	.0	.10	--	184	
1035	5050		107	18	C	8.1	294	1.55	1.07	.48	.03	.00	2.15	.75	.21	.00	--	164	24	0.4

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	PERCENT REACTANCE VALUE		SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR
E0 B 748.1 222.4 SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND CONTINUED																				
04/13/71	5050		9.0	55	F	8.1	36000	--	--	--	--	--	--	12900	--	--	23800	7E		
0910	5050		85	13	C		33900							363.78						
														123						
05/11/71	5050		8.2	60.5F	F	8.0	35000	--	--	--	--	--	--	14100	--	--	27600	15E		
0812	5050		82	15.8C	C		36800							397.62						
														124						
E0 B 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND																				
06/23/71	5050		6.4	59	F	8.2	40500	--	--	--	--	--	--	15800	--	--	32100	9E		
0700	5050		63	15	C		39200							445.56						
														114						
07/08/71	5050		7.3	61	F	7.7	43000	--	--	--	--	--	--	15400	--	--	31900	7E		
0640	5050		74	16	C		39800							434.28						
														109						
08/10/71	5050		5.9	64	F	7.9		--	--	--	--	--	--	16400	--	--	31700	6E		
0900	5050		62	18	C		41500							462.48						
														111						
09/21/71	5050		7.0	63	F	7.9		--	--	--	--	--	--	15500	--	--	29800	3E		
0715	5050		72	17	C		40100							437.10						
														109						
E0 B 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS																				
10/21/70	5050		8.2	60	F	7.9	35000	--	--	--	--	--	--	13500	--	--	25100	3E		
1120	5050		82	16	C		35500							380.70						
														123						
11/17/70	5050		7.8	59	F	8.2	38000	--	--	--	--	--	--	13600	--	--	24600	6E		
1145	5050		77	15	C		35300							383.52						
														125						
12/16/70	5050		9.7	51	F	7.5	13000	--	--	--	--	--	--	4460	--	--	8000	20E		
1220	5050		87	11	C		13700							125.77						
														106						
01/28/71	5050		8.6	50	F	7.5	28000	--	--	--	--	--	--	9780	--	--	18100	25E		
1000	5050		76	10	C		25600							275.80						
														124						
02/17/71	5050		9.7	52	F	7.8	21000	--	--	--	--	--	--	6350	--	--	12400	15E		
1450	5050		88	11	C		18500							179.07						
														111						
03/16/71	5050		9.5	53	F	7.8	15000	--	--	--	--	--	--	8800	--	--	14900	10E		
1050	5050		87	12	C		22600							248.16						
														126						
04/13/71	5050		9.0	56	F	7.8	21500	--	--	--	--	--	--	6740	--	--	13100	25E		
1010	5050		86	13	C		20100							190.07						
														109						
05/11/71	5050		8.8	59.0F	F	7.8	20800	--	--	--	--	--	--	9000	--	--	17500	30E		
1000	5050		87	15.0C	C		25200							253.80						
														116						
E0 B 801.8 222.3 SAN PABLO BAY NEAR PINOLE POINT																				
03/24/71	5001		9.0	54	F	7.7		--	--	--	--	--	--	13500	1.3	--		14A		
1130	5006		83	12	C		38100							380.70	.02	--				
		3												100						
04/21/71	5001		10.2	55	F	7.8		--	--	--	--	.0	105	--	9500	1.3	--	13A		
1055	5006		96	13	C		27300					.00	1.72	--	267.90	.02	8.0			
		3												1						
05/19/71	5001		9.3	61	F	7.9		--	--	--	--	.0	61	--	8600	1.3	--	8A		
1130	5006		94	16	C		25500					.00	1.00	--	242.52	.02	8.7			
		3												95						
06/16/71	5001		8.5	63	F	7.5		--	--	--	--	.0	108	--	9500	.9	--	6A		
0930	5006		87	17	C		27800					.00	1.77	--	267.90	.01	8.4			
		3												1						

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DD SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER								
						CA	MG	NA	K	CO3	HCO3	SO4	CL	PERCENT REACTANCE VALUE	NO3	B	F	TDS SUM	TH NCH	TURB SAR		
EO B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND																						
10/07/70 1200	5001 5006		9.3 96	63 17	F C	7.6 1550	--	--	--	--	--	--	--	.4 .01	--	--	13.0					55A
11/20/70 1130	5001 5006		9.6 93	57 14	F C	7.2 361	--	--	--	--	--	--	--	1.3 .02 1	--	--	16.0					28A
03/04/71 1000	5001 5006		11.8 104	50 10	F C	6.8 663	--	--	--	--	.0 .00	79 1.29 19	--	--	1.3 .02	--	--	18.0				39A
03/24/71 1345	5001 5006		10.7 101	55 13	F C	7.4 436	--	--	--	--	.0 .00	70 1.15 26	--	--	--	--	13.0				65A	
04/06/71 1245	5001 5006		10.4 103	59 15	F C	7.5 140	--	--	--	--	.0 .00	64 1.05 75	--	--	.4 .01 1	--	--	16.0				70A
04/21/71 1255	5001 5006		10.6 102	57 14	F C	7.6 144	--	--	--	--	--	--	--	--	--	--	16.0				28A	
05/04/71 1305	5001 5006		10.8 107	59 15	F C	7.5 179	--	--	--	--	.0 .00	62 1.02 57	--	--	.0 .00	--	--	15.0				27A
05/19/71 1335	5001 5006		10.0 105	64 18	F C	7.7 157	--	--	--	--	--	--	--	--	--	--	13.0				17A	
06/02/71 1235	5001 5006		9.8 103	64 18	F C	7.6 172	--	--	--	--	.0 .00	70 1.15 67	--	--	.2 .00	--	--	13.0				15A
06/16/71 1150	5001 5006		10.1 112	70 21	F C	7.5 156	--	--	--	--	--	--	--	--	--	--	14.0				18A	
06/30/71 1105	5001 5006		9.2 102	70 21	F C	7.5 251	--	--	--	--	.0 .00	60 .98 39	--	--	.1 .00	--	--	13.0				22A
07/15/71 1205	5001 5006		9.3 104	70 21	F C	7.9 1870	--	--	--	--	--	--	--	--	--	--	11.0				37A	
08/03/71 1520	5001 5006		9.4 107	72 22	F C	8.0 2550	--	--	--	--	.0 .00	64 1.05 4	--	--	.0 .00	--	--	11.0				37A
08/17/71 1620	5001 5006		9.2 106	73 23	F C	7.9 1920	--	--	--	--	--	--	--	--	--	--	12.0				40A	
08/31/71 1430	5001 5006		9.4 105	70 21	F C	8.0 553	--	--	--	--	.0 .00	67 1.10 20	--	--	.3 .00	--	--	15.0				27A
09/15/71 1500	5001 5006		7.9 91	73 23	F C	7.5 639	--	--	--	--	--	--	--	--	--	--	13.0				35A	
09/28/71 1230	5001 5006		8.7 91	64 18	F C	7.7 227	--	--	--	--	7.0 .23 10	56 .92 41	--	--	.3 .00	--	--	15.0				26A
EO B 803.2 204.8 SUISUN BAY ABOVE AVON PIER																						
10/09/70 1235	5001 5006		8.9 95	66 19	F C	7.7 19100	--	--	--	--	--	--	--	--	--	--	--					35A
03/04/71 0845	5001 5006		10.9 96	50 10	F C	6.8 14500	--	--	--	--	--	--	--	--	--	--	14.0					26A
EO B 803.5 217.0 SAN PABLO BAY NEAR RODED																						
03/24/71 1200	5001 5006		9.6 93	57 14	F C	7.6 28000	--	--	--	--	--	--	--	8600 242.52 87	1.3 .02	--	--	5.3				30A
04/21/71 1120	5001 5006		10.1 96	55 13	F C	7.7 20700	--	--	--	--	.0 .00	95 1.56 1	--	6900 194.58 94	.9 .01	--	--	10.0				55A
05/19/71 1200	5001 5006		8.6 87	61 16	F C	7.8 20900	--	--	--	--	.0 .00	95 1.56 1	--	7100 200.22 96	.4 .01	--	--	8.9				10A
06/16/71 1005	5001 5006		10.8 120	70 21	F C	7.7 19500	--	--	--	--	.0 .00	99 1.62 1	--	6400 180.48 93	.9 .01	--	--	9.6				13A
07/15/71 1025	5001 5006		8.4 88	64 18	F C	7.7 27900	--	--	--	--	.0 .00	107 1.75 1	--	9500 267.90 96	.9 .01	--	--	7.4				14A
08/17/71 1500	5001 5006		8.7 97	70 21	F C	8.2 27200	--	--	--	--	.0 .00	102 1.67 1	--	9400 265.08 97	.9 .01	--	--	3.9				22A
09/15/71 1340	5001 5006		7.5 85	72 22	F C	7.6 26700	--	--	--	--	.0 .00	98 1.61 1	--	7100 200.22 75	.9 .01	--	--	6.1				10A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER			MILLIGRAMS PER LITER			
						CA	MG	NA	K	CO3	HCO3	504	CL	NO3	B SI02	F	TDS SUM
E0 8 803.6 159.3 SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS																	
10/09/70	5001		10.0	64	F 7.7	--	--	--	--	--	--	--	--	--	60A		
1310	5006	3	105	18	C	5350											
03/04/71	5001		11.7	50	F 7.0	--	--	--	--	--	--	--	--	--	50A		
0915	5006	3	103	10	C	2180							16.0				
05/04/71	5001		11.0	59	F 7.4	--	--	--	--	--	--	--	--	--	55A		
1215	5006	3	109	15	C	320							15.0				
06/02/71	5001		9.9	64	F 7.8	--	--	--	--	--	--	--	--	--	17A		
1150	5006	3	104	18	C	204							12.0				
06/30/71	5001		9.4	70	F 7.6	--	--	--	--	--	--	--	--	--	33A		
1020	5006	3	105	21	C	1650							12.0				
08/03/71	5001		9.4	70	F 8.0	--	--	--	--	--	--	--	--	--	32A		
1435	5006	3	105	21	C	3710							8.9				
08/31/71	5001		9.7	72	F 8.1	--	--	--	--	--	--	--	--	--	32A		
1340	5006	3	110	22	C	1600							11.0				
09/28/71	5001		8.9	66	F 7.6	--	--	--	--	--	--	--	--	--	37A		
1145	5006	3	95	19	C	888							11.0				
E0 8 804.0 203.0 SUISUN BAY NEAR PRESTON POINT																	
10/09/70	5001		9.3	64	F 7.8	--	--	--	--	--	--	--	--	--	39A		
1245	5006	3	98	18	C	15500											
03/04/71	5001		11.0	50	F 6.7	--	--	--	--	--	--	--	--	--	65A		
0900	5006	3	97	10	C	9000							14.0				
05/04/71	5001		10.5	59	F 7.5	--	--	--	--	--	--	--	--	--	50A		
1150	5006	3	104	15	C	2900							14.0				
06/02/71	5001		10.6	64	F 8.1	--	--	--	--	--	--	--	--	--	27A		
1130	5006	3	111	18	C	1180							12.0				
06/30/71	5001		9.6	68	F 7.6	--	--	--	--	--	--	--	--	--	40A		
0955	5006	3	105	20	C	3270							7.5				
08/03/71	5001		9.1	70	F 8.0	--	--	--	--	--	--	--	--	--	40A		
1415	5006	3	101	21	C	11800							4.2				
08/31/71	5001		9.4	70	F 7.9	--	--	--	--	--	--	--	--	--	34A		
1310	5006	3	105	21	C	6760							9.2				
09/28/71	5001		8.9	64	F 7.5	--	--	--	--	--	--	--	--	--	37A		
1115	5006	3	93	18	C	3330							12.0				
E0 8 804.4 156.2 HONKER BAY NEAR WHEELER POINT																	
10/09/70	5001		9.3	64	F 7.7	--	--	--	--	--	--	--	--	--	60A		
1330	5006	3	98	18	C	1960											
03/04/71	5001		11.7	50	F 6.8	--	--	--	--	.0	78	--	1.3	--	45A		
0935	5006	3	103	10	C	609				.00	1.28 21		.02	19.0			
03/23/71	5001		10.7	55	F 7.1	--	--	--	--	.0	69	--	--	--	55A		
1135	5006	3	101	13	C	426				.00	1.13 27			12.0			
04/06/71	5001		10.5	59	F 7.5	--	--	--	--	--	63	--	.0	--	70A		
1215	5006	3	104	15	C	140					1.03 74		.00	16.0			
04/20/71	5001		10.3	57	F 7.3	--	--	--	--	--	--	--	--	--	50A		
1030	5006	3	100	14	C	153								17.0			
05/04/71	5001		11.3	59	F 7.5	--	--	--	--	.0	64	--	.1	--	37A		
1240	5006	3	112	15	C	174				.00	1.05 60		.00	15.0			
05/18/71	5001		10.4	63	F 7.7	--	--	--	--	--	--	--	--	--	22A		
1020	5006	3	107	17	C	165								15.0			
06/02/71	5001		10.4	64	F 7.8	--	--	--	--	.0	70	--	.4	--	24A		
1210	5006	3	109	18	C	175				.00	1.15 66		.01 1	13.0			
06/15/71	5001		9.8	68	F 7.5	--	--	--	--	--	--	--	--	--	30A		
0940	5006	3	107	20	C	218								14.0			
06/30/71	5001		9.5	70	F 7.5	--	--	--	--	.0	60	--	.1	--	34A		
1035	5006	3	106	21	C	332				.00	.98 30		.00	13.0			

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER							
						CA	HG	NA	K	CO3	HCO3	SO4	CL	PERCENT REACTANCE VALUE	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
EO 8 804.4 156.2 HONKER BAY NEAR WHEELER POINT						CONTINUED															
07/14/71 0835	5001 5006	3	9.1 103	72 22	F 7.7 C	1210	--	--	--	--	--	--	--	--	--	--	--	8.0	--	--	45A
08/03/71 1455	5001 5006	3	9.3 106	72 22	F 7.9 C	3160	--	--	--	.00	1.053	64	--	--	.100	--	--	11.0	--	--	55A
08/16/71 1245	5001 5006	3	8.7 99	72 22	F 7.7 C	1830	--	--	--	--	--	--	--	--	--	--	--	12.0	--	--	60A
08/31/71 1400	5001 5006	3	9.4 105	70 21	F 8.0 C	655	--	--	--	.00	1.1017	67	--	--	.300	--	--	13.0	--	--	37A
09/14/71 1310	5001 5006	3	7.9 93	75 24	F 7.6 C	433	--	--	--	--	--	--	--	--	--	--	--	13.0	--	--	37A
09/28/71 1200	5001 5006	3	8.8 92	64 18	F 7.7 C	198	--	--	--	.00	1.5176	92	--	--	.300	--	--	13.0	--	--	33A
EO 8 805.3 226.3 SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER																					
03/24/71 1100	5001 5006	3	9.6 91	55 13	F 7.4 C	28000	--	--	--	--	--	--	9700	1.8	--	--	273.5498	.03	--	--	22A
04/21/71 1015	5001 5006	3	10.1 93	54 12	F 7.6 C	24600	--	--	--	.00	1.661	101	--	8500	.9	--	239.7097	.01	--	8.8	40A
05/19/71 1050	5001 5006	3	9.4 97	63 17	F 7.9 C	23100	--	--	--	.00	2.311	141	--	7700	.4	--	217.1494	.01	--	8.7	16A
06/16/71 0840	5001 5006	3	9.6 103	66 19	F 7.5 C	24000	--	--	--	.00	1.741	106	--	8300	.9	--	234.0698	.01	--	9.6	8A
07/15/71 0915	5001 5006	3	8.1 87	66 19	F 8.1 C	26700	--	--	--	.00	1.741	106	--	8600	.4	--	242.5291	.01	--	9.7	10A
08/17/71 1335	5001 5006	3	8.6 94	68 20	F 8.1 C	30300	--	--	--	.00	1.821	111	--	10700	2.2	--	301.74100	.04	--	6.8	70A
09/15/71 1240	5001 5006	3	7.6 91	77 25	F 7.9 C	26800	--	--	--	.00	2.311	141	--	9200	.4	--	259.4497	.01	--	7.1	14A
EO 8 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH																					
10/07/70 1000	5001 5006	3	9.6 97	61 16	F 7.6 C	5470	--	--	--	--	--	--	--	--	.200	--	--	7.0	--	--	140A
11/20/70 1000	5001 5006	3	9.2 89	57 14	F 7.4 C	3090	--	--	--	--	--	--	--	--	.801	--	--	14.0	--	--	70A
03/04/71 0755	5001 5006	3	11.3 97	48 9	F 6.8 C	2740	--	--	--	.00	1.345	82	--	--	1.302	--	--	17.0	--	--	70A
03/23/71 1030	5001 5006	3	10.5 99	55 13	F 7.3 C	2420	--	--	--	.00	1.235	75	--	--	--	--	--	13.0	--	--	70A
04/06/71 1030	5001 5006	3	10.2 101	59 15	F 7.5 C	145	--	--	--	.00	1.0270	62	--	--	.000	--	--	16.0	--	--	80A
04/20/71 0955	5001 5006	3	10.1 98	57 14	F 7.3 C	188	--	--	--	--	--	--	--	--	--	--	--	17.0	--	--	100A
05/04/71 1015	5001 5006	3	10.5 101	57 14	F 7.3 C	758	--	--	--	.00	1.0314	63	--	--	.200	--	--	15.0	--	--	75A
05/18/71 0920	5001 5006	3	10.5 108	63 17	F 7.3 C	286	--	--	--	--	--	--	--	--	--	--	--	15.0	--	--	40A
06/02/71 1020	5001 5006	3	10.0 103	63 17	F 7.9 C	372	--	--	--	.00	1.0328	63	--	--	.100	--	--	13.0	--	--	40A
06/15/71 0900	5001 5006	3	9.7 104	66 19	F 7.5 C	580	--	--	--	--	--	--	--	--	--	--	--	14.0	--	--	50A
06/30/71 0835	5001 5006	3	9.5 104	68 20	F 7.7 C	1550	--	--	--	.00	1.057	64	--	--	.200	--	--	--	--	--	60A
07/14/71 0745	5001 5006	3	9.2 104	72 22	F 7.6 C	3140	--	--	--	--	--	--	--	--	--	--	--	9.2	--	--	32A
08/03/71 1300	5001 5006	3	9.4 105	70 21	F 7.8 C	7560	--	--	--	.00	1.051	64	--	--	.100	--	--	6.6	--	--	60A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					
							CA	MG	NA	K	CO3	HCO3	PERCENT	REACTANCE	CL	NO3	NO3	NO3	B	F	TDS	TH	TURB
E0 8 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH																				CONTINUED			
08/16/71 1200	5001 5006		9.2 104	72 22	F C	7.8		4640	--	--	--	--	--	--	--	--	--	--	--	6.9			45A
08/31/71 1200	5001 5006		9.7 108	70 21	F C	8.0		2510	--	--	--	--	.0 .00	81 1.33	--	--	.3 .00	--	--	5.4			47A
09/14/71 1200	5001 5006		8.1 94	73 23	F C	7.7		2270	--	--	--	--	--	--	--	--	--	--	--	12.0			48A
09/28/71 0950	5001 5006		9.4 99	64 18	F C	7.5		338	--	--	--	--	.0 .00	72 1.18	--	--	.4 .01	--	--	14.0			34A
E0 5 809.2 205.3 CORDELIA SLOUGH AT CYGNUS																							
10/07/70 0840	5001 5006		8.3 85	63 17	F C	7.4		5480	--	--	--	--	--	--	--	--	--	--	--	--			110A
11/06/70 0920	5001 5006		7.5 72	57 14	F C	7.1		5100	50 2.50	110 9.05	840 36.54	36 .92	.0 .00	102 1.67	240 5.00	1440 40.61	.9 .01	.30 11.0	--	3080 2778	578 494	90A 15.2	
12/09/70 1040	5001 5006		9.3 84	52 11	F C	7.1		1410	--	--	--	--	--	--	--	--	--	--	--	--			120A
01/06/71 1020	5001 5006		11.1 91	45 7	F C	7.2		704	--	--	--	--	--	--	--	--	--	--	--	--			80A
02/05/71 1000	5001 5006		9.2 79	48 9	F C	7.1		762	--	--	--	--	--	--	--	--	--	--	--	--			120A
03/05/71 0915	5001 5006		10.0 88	50 10	F C	7.2		990	--	--	--	--	--	--	--	--	--	--	--	--			75A
04/05/71 1020	5001 5006		8.0 84	64 18	F C	7.2		1310	--	--	--	--	--	--	--	--	--	--	--	--			140A
05/17/71 1115	5001 5006		8.8 92	64 18	F C	7.4		1450	27 1.35	34 2.80	215 9.35	13 .33	.0 .00	100 1.64	105 2.19	360 10.15	.8 .01	.20 12.0	--	868 816	208 126	100A 6.5	
06/18/71 1015	5001 5006		7.3 81	70 21	F C	7.1		1060	--	--	--	--	--	--	--	--	--	--	--	--			130A
07/30/71 1005	5001 5006		8.2 91	70 21	F C	7.6		4540	--	--	--	--	--	--	--	--	--	--	--	--			45A
08/27/71 0900	5001 5006		7.3 81	70 21	F C	7.7		4240	40 2.00	85 6.99	680 29.58	31 .79	.0 .00	84 1.38	160 3.33	1180 33.28	.4 .01	.20 7.3	--	2580 2225	450 381	50A 14.0	
09/27/71 1000	5001 5006		9.0 93	63 17	F C	7.2		1540	--	--	--	--	--	--	--	--	--	--	--	--			55A
E0 5 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND																							
10/07/70 1040	5001 5006		8.0 82	63 17	F C	7.5		5350	--	--	--	--	--	--	--	--	--	--	--	--			75A
11/06/70 1215	5001 5006		7.3 72	59 15	F C	7.3		3670	45 2.25	90 7.40	570 24.80	27 .69	.0 .00	141 2.31	180 3.75	986 27.81	2.2 .04	.30 11.0	--	2200 1981	483 367	75A 11.3	
12/09/70 1305	5001 5006		7.8 72	54 12	F C	7.0		2270	--	--	--	--	--	--	--	--	--	--	--	--			100A
01/06/71 1245	5001 5006		9.6 79	45 7	F C	7.1		1770	--	--	--	--	--	--	--	--	--	--	--	--			90A
02/05/71 1255	5001 5006		8.7 79	52 11	F C	7.0		1610	--	--	--	--	--	--	--	--	--	--	--	--			100A
03/05/71 1115	5001 5006		9.3 82	50 10	F C	7.2		1900	--	--	--	--	--	--	--	--	--	--	--	--			120A
04/05/71 1305	5001 5006		7.6 81	66 19	F C	7.2		2120	--	--	--	--	--	--	--	--	--	--	--	--			120A
05/17/71 1405	5001 5006		8.7 93	66 19	F C	7.9		1860	36 1.80	46 3.78	275 11.96	15 .38	.0 .00	127 2.08	140 2.91	450 12.69	3.7 .06	.60 11.0	--	1860 1040	279 175	75A 7.2	
06/18/71 1240	5001 5006		9.1 105	73 23	F C	7.4		961	--	--	--	--	--	--	--	--	--	--	--	--			95A
07/30/71 1230	5001 5006		9.3 106	72 22	F C	7.5		3650	--	--	--	--	--	--	--	--	--	--	--	--			45A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO3	HCO3	PERCENT REACTANCE VALUE	504	CL	NO3	8	F 5102	TDS SUM	TH NCH	TURB SAR	
E0 S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND CONTINUED																					
08/27/71 1240	5001 5006		7.8 90	73 23	F C	7.9	4390	40 2.00	90 7.40	720 31.32	27 .69	.0 2	102 1.67	180 3.75	1220 34.40	.4 .01	.20	-- 4.2	2570 2332	470 387	50A 14.4
09/27/71 1250	5001 5006		8.1 85	64 18	F C	7.6	2180	--	--	--	--	--	--	--	--	--	--	--	--	--	60A
E0 S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD NEAR SUISUN																					
10/07/70 0950	5001 5006		8.4 86	63 17	F C	7.6	5210	--	--	--	--	--	--	--	--	--	--	--	--	--	50A
11/06/70 1040	5001 5006		7.0 69	59 15	F C	7.2	4180	48 2.40	100 8.22	640 27.84	32 .82	.0 2	129 2.11	200 4.16	1150 32.43	1.3 .02	.00	-- 13.0	2500 2248	532 426	70A 12.1
12/09/70 1215	5001 5006		8.6 80	54 12	F C	7.0	2220	--	--	--	--	--	--	--	--	--	--	--	--	--	100A
01/06/71 1110	5001 5006		10.7 88	45 7	F C	7.0	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	90A
02/05/71 1120	5001 5006		9.0 80	50 10	F C	7.0	1310	--	--	--	--	--	--	--	--	--	--	--	--	--	100A
03/05/71 1015	5001 5006		9.6 87	52 11	F C	7.2	1850	--	--	--	--	--	--	--	--	--	--	--	--	--	130A
04/05/71 1155	5001 5006		7.7 79	63 17	F C	7.3	1940	--	--	--	--	--	--	--	--	--	--	--	--	--	110A
05/17/71 1250	5001 5006		7.9 85	66 19	F C	7.7	1400	37 1.85	42 3.45	185 8.05	11 .28	.0 2	165 2.70	110 2.29	300 8.46	2.7 .04	.20	-- 14.0	710 783	265 130	80A 4.9
06/19/71 1135	5001 5006		8.7 99	72 22	F C	7.3	896	--	--	--	--	--	--	--	--	--	--	--	--	--	100A
07/30/71 1120	5001 5006		8.2 91	70 21	F C	7.6	1640	--	--	--	--	--	--	--	--	--	--	--	--	--	90A
08/27/71 1115	5001 5006		6.6 74	70 21	F C	7.7	4040	22 1.10	90 7.40	660 28.71	28 .72	.0 2	113 1.85	180 3.75	1100 31.02	.9 .01	.20	-- 7.3	2380 2144	425 333	40A 13.9
09/27/71 1115	5001 5006		8.4 85	61 16	F C	7.3	922	--	--	--	--	--	--	--	--	--	--	--	--	--	35A
E0 S 811.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD																					
10/07/70 1110	5001 5006		8.6 89	63 17	F C	7.5	5930	--	--	--	--	--	--	--	--	--	--	--	--	--	50A
11/06/70 1300	5001 5006		7.0 69	59 15	F C	7.1	5920	60 2.99	130 10.69	1000 43.50	45 1.15	.0 2	103 1.69	280 5.83	1740 49.07	.9 .01	.50	-- 9.0	3600 3316	685 600	65A 16.6
12/09/70 1345	5001 5006		9.0 81	52 11	F C	7.0	1820	--	--	--	--	--	--	--	--	--	--	--	--	--	95A
01/06/71 1320	5001 5006		10.7 88	45 7	F C	7.0	1570	--	--	--	--	--	--	--	--	--	--	--	--	--	85A
02/05/71 1340	5001 5006		10.1 89	50 10	F C	6.9	1120	--	--	--	--	--	--	--	--	--	--	--	--	--	100A
03/05/71 1220	5001 5006		9.7 86	50 10	F C	7.0	1900	--	--	--	--	--	--	--	--	--	--	--	--	--	130A
04/05/71 1345	5001 5006		8.4 88	64 18	F C	6.9	1130	--	--	--	--	--	--	--	--	--	--	--	--	--	90A
05/17/71 1450	5001 5006		10.1 108	66 19	F C	7.8	683	18 .90	17 1.40	96 4.18	6.5 .17	.0 2	73 1.20	50 1.04	154 4.34	.4 .01	--	-- 13.0	409 391	115 55	65A 3.9
06/18/71 1320	5001 5006		8.9 103	73 23	F C	7.3	746	--	--	--	--	--	--	--	--	--	--	--	--	--	70A
07/30/71 1310	5001 5006		8.6 98	72 22	F C	7.4	2210	--	--	--	--	--	--	--	--	--	--	--	--	--	60A
08/27/71 1330	5001 5006		7.9 91	73 23	F C	7.9	3610	36 1.80	75 6.17	580 25.23	11 .28	.0 1	80 1.31	150 3.12	990 27.92	.4 .01	--	-- 6.5	2100 1888	399 333	40A 12.6
09/27/71 1320	5001 5006		8.6 92	66 19	F C	7.3	2310	--	--	--	--	--	--	--	--	--	--	--	--	--	50A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TURB SAR			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCH				
E0 S 811.5 207.2 CORDELIA SLOUGH AT UPPER END NEAR CORDELIA																						
10/07/70	5001		8.7	59	F	7.8														31A		
0910	5006	3	86	15	C		543															
04/05/71	5001		6.5	66	F	7.2														80A		
1120	5006	3	70	19	C		1300															
05/17/71	5001		6.9	66	F	7.7														75A		
1205	5006	1	74	19	C		1190	1.60	32	32	155	8.2	.0	200	70	235	1.5	.30	--	891	212	75A
06/18/71	5001		6.9	72	F	7.2														90A		
1100	5006	2	78	22	C		751															
07/30/71	5001		6.6	68	F	8.2														120A		
1040	5006	3	72	20	C		923															
08/27/71	5001		6.9	68	F	8.0														80A		
1015	5006	2	75	20	C		606	1.00	20	29	61	4.8	.0	176	35	88	.7	.00	--	390	170	80A
09/27/71	5001		9.7	59	F	7.6														15A		
1045	5006	3	96	15	C		323															
E0 S 813.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD																						
10/07/70	5001		9.2	59	F	7.9														55A		
1130	5006	3	91	15	C		657															
11/06/70	5001		8.5	59	F	7.6														45A		
1330	5006	3	84	15	C		530	1.05	21	28	46	3.5	.0	172	35	60	.4	.20	--	314	168	45A
12/09/70	5001		5.5	54	F	7.0														130A		
1420	5006	3	51	12	C		1410															
01/06/71	5001		8.4	45	F	7.3														55A		
1345	5006	3	69	7	C		2530															
02/05/71	5001		6.1	50	F	7.3														75A		
1400	5006	3	54	10	C		2890															
03/05/71	5001		9.0	52	F	7.6														65A		
1245	5006	3	81	11	C		3010															
04/05/71	5001		6.6	66	F	7.3														100A		
1415	5006	3	71	19	C		2930															
06/18/71	5001		7.8	73	F	7.6														85A		
1345	5006	3	90	23	C		2000															
07/30/71	5001		8.4	70	F	7.8														80A		
1335	5006	3	94	21	C		2320															
08/27/71	5001		8.1	70	F	8.0														45A		
1400	5006	3	90	21	C		3430	46	80	550	25	.0	168	170	920	1.8	.40	--	2030	444	45A	
09/27/71	5001		9.3	63	F	7.6														36A		
1345	5006	3	96	17	C		411	7	20	72	2	.00	2.75	3.54	25.94	.03	3.4	--	1879	307	11.4	
E3 1100.50 NAPA RIVER AT DUTTONS LANDING																						
04/13/71	5050		10.9	60	F	8.2	4500															
1130			109	16	C																	
E3 1250.00 NAPA RIVER NEAR NAPA																						
10/22/70	5050	2.49	13.9	63	F	8.0	390	26	23	21	--	7.0	170	--	21	--	--	--	--	161	3E	
1445	5050	2.8	144	17	C	8.5	386	1.30	1.92	.91		.23	2.79		.59					10	0.7	
01/13/71	5050	6.51	11.8	46	F	7.3	75	12	6.8	7.5	--	.0	67	--	5.9	--	--	--	--	58	90E	
1330	5050	809	99	8	C	7.6	151	.60	.56	.33		.00	1.10		.17					3	0.4	
02/19/71	5050	4.04	11.5	51	F	7.3	305	22	16	15	--	.0	141	--	11	--	--	--	--	122	6E	
1030	5050	166	103	11	C	8.2	296	1.10	1.34	.65		.00	2.31		.31					7	0.6	
04/16/71	5050	4.12	10.4	60	F	7.4	270	21	14	13	--	.0	133	--	9.5	--	--	--	--	112	4E	
1030	5050	104	104	16	C	7.8	274	1.05	1.19	.57		.00	2.18		.27					3	0.5	
05/13/71	5050	3.68	10.8	68.0F	F	7.7	320	22	18	18	--	.0	156	--	14	--	--	--	--	130	2E	
1100	5050	36	118	20.0C	C	8.3	331	1.10	1.50	.78		.00	2.56		.39					2	0.7	
06/17/71	5050	3.30	9.4	76	F	7.6	300	24	20	22	--	.0	173	--	16	--	--	--	--	143	1E	
1145	5050		112	24	C	8.3	366	1.20	1.66	.96		.00	2.84		.45					1	0.8	
07/22/71	5050	3.06	12.1	79	F	8.2	370	30	20	21	--	.0	179	--	20	--	--	--	--	160	1E	
1300	5050		148	26	C	7.9	387	1.50	1.70	.91		.00	2.93		.56					14	0.7	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO3	HCO3	504	CL	NO3	8	F 5102	TDS SUM	TM NCM	TURB SAR	
																				PERCENT REACTANCE VALUE
E3 1250.00 NAPA RIVER NEAR NAPA						CONTINUED														
09/28/71	5050	3.15	11.4	61	F 8.2	380	27	24	17	--	4.0	213	--	16	--	--	--	168	3E	
1140	5050		115	16	C 8.5	418	1.35	2.01	.74	--	.13	3.49	--	.45	--	--	--	13	0.6	
E3 2100.51 GREEN VALLEY CREEK AT COROELIA																				
11/06/70	5001		9.8	57	F 7.7		16	18	14	2.3	.0	133	21	14	1.3	.00	--	187	114	50A
1005	5006		95	14	C	296	.80	1.48	.61	.06	.00	2.18	.44	.39	.02	16.0	168	5	0.6	
E3 2100.51 GREEN VALLEY CREEK AT COROELIA																				
12/09/70	5001		11.6	54	F 7.2		--	--	--	--	--	--	--	--	--	--	--			23A
1115	5006		107	12	C	230	--	--	--	--	--	--	--	--	--	--	--			
E3 2100.51 GREEN VALLEY CREEK AT COROELIA																				
01/06/71	5001		12.7	45	F 7.2		--	--	--	--	--	--	--	--	--	--	--			14A
1040	5006		104	7	C	263	--	--	--	--	--	--	--	--	--	--	--			
E3 2100.51 GREEN VALLEY CREEK AT COROELIA																				
02/05/71	5001		10.6	48	F 7.2		--	--	--	--	--	--	--	--	--	--	--			9A
1030	5006		91	9	C	419	--	--	--	--	--	--	--	--	--	--	--			
E3 2100.51 GREEN VALLEY CREEK AT COROELIA																				
03/05/71	5001		11.5	46	F 7.4		--	--	--	--	--	--	--	--	--	--	--			5A
0950	5006		97	8	C	360	--	--	--	--	--	--	--	--	--	--	--			
E4 4180.01 WALNUT CREEK AT HIGHWAY 4 AT CONCORD																				
06/09/71	5050		8.2	63	F 8.0	950	--	--	--	--	--	--	--	--	--	--	--			
0900		20	85	17	C		--	--	--	--	--	--	--	--	--	--	--			
E5 1400.00 ARROYO VALLE NEAR LIVERMORE																				
06/09/71	5050	2.70	8.8	67	F 7.9	86	--	--	--	--	--	--	--	--	--	--	--			
1000			95	19	C		--	--	--	--	--	--	--	--	--	--	--			
E6 5100.00 SARATOGA CREEK AT SARATOGA																				
06/09/71	5050	2.75	9.4	65	F 8.0	470	--	--	--	--	--	--	--	--	--	--	--			
1120			99	18	C		--	--	--	--	--	--	--	--	--	--	--			
FB 2100.00 NAVARRO RIVER NEAR NAVARRO																				
11/11/70	5050	2.77	10.3	58.0F	7.6		27	11	13	1.6	.0	132	16	9.6	.8	.30	--	156	112	2E
1700	5050		85	100	14.4C	8.1	272	1.35	.90	.57	.04	.00	2.16	.33	.27	.01	--	144	5	0.5
FB 2100.00 NAVARRO RIVER NEAR NAVARRO																				
01/07/71	5050	3.90	12.5	41.0F	7.0		--	--	7.8	--	--	.87	--	7.9	--	.10	--		78	15E
1000	5050		507	98	5.0C	8.1	179	--	--	.34	.00	1.43	--	.22	--	--	--			
FB 2100.00 NAVARRO RIVER NEAR NAVARRO																				
02/03/71	5050	3.28	11.4	48	F 7.3		21	7.7	9.0	.9	.0	102	10	7.2	.5	.00	--	108	84	5E
1645	5050		288	98	9	C 8.1	202	1.05	.63	.39	.02	.00	1.67	.21	.20	.01	--	106	1	0.4
FB 2100.00 NAVARRO RIVER NEAR NAVARRO																				
03/03/71	5050	2.72	11.5	50	F 7.4		--	--	8.1	--	.0	115	--	7.1	--	.10	--		105	3E
1630	5050		130	102	10	C 7.6	225	--	--	.35	.00	1.88	--	.20	--	--	--			
FB 2100.00 NAVARRO RIVER NEAR NAVARRO																				
05/05/71	5050	2.79	9.7	62	F 7.4		--	--	8.9	--	.0	114	--	5.7	--	.10	--		93	2E
1600	5050		145	99	17	C 7.7	225	--	--	.39	.00	1.87	--	.16	--	--	--			
FB 2100.00 NAVARRO RIVER NEAR NAVARRO																				
07/21/71	5050	1.80	10.7	75	F 7.6		--	--	13	--	.0	129	--	8.6	--	.10	--		108	2E
1500	5050		16	126	24	C 8.0	251	--	--	.57	.00	2.11	--	.24	--	--	--			
FB 2100.00 NAVARRO RIVER NEAR NAVARRO																				
09/15/71	5050	1.77	10.0	70.7F	7.2		--	--	15	--	.0	144	--	21	--	.20	--		113	1E
1450	5050		14	112	21.5C	7.7	266	--	--	.65	.00	2.36	--	.59	--	--	--			
FB 2720.00 BIG RIVER NEAR MENDOCINO																				
11/11/70	5050	7.84	10.6	56.0F	8.0		19	7.2	11	1.4	.0	97	8.9	7.6	.7	.40	--	98	77	10E
1525	5050		220	101	13.3C	8.1	199	.95	.59	.48	.04	.00	1.59	.19	.21	.01	--	104	3	0.5
FB 2720.00 BIG RIVER NEAR MENDOCINO																				
01/07/71	5050	8.35	12.3	40.1F	7.1		--	--	6.5	--	.0	67	--	6.3	--	.20	--		54	15E
0830	5050		125	95	4.5C	8.1	137	--	--	.28	.00	1.10	--	.18	--	--	--			
FB 2720.00 BIG RIVER NEAR MENDOCINO																				
02/03/71	5050	8.21	12.3	46	F 7.3		16	4.4	7.6	1.0	.0	74	7.1	6.9	.0	.00	--	88	58	4E
1530	5050		90	103	8	C 8.1	150	.80	.36	.33	.03	.00	1.21	.15	.19	.00	--	79	3	0.4
FB 2720.00 BIG RIVER NEAR MENDOCINO																				
03/03/71	5050	7.88	11.9	47	F 7.3		--	--	7.0	--	.0	82	--	5.9	--	.10	--		69	4E
1515	5050		70	101	8	C 7.5	167	--	--	.30	.00	1.34	--	.17	--	--	--			
FB 2720.00 BIG RIVER NEAR MENDOCINO																				
05/05/71	5050	7.77	10.1	58	F 7.3		--	--	8.3	--	.0	85	--	4.8	--	.10	--		66	4E
1415	5050		60	99	14	C 7.5	167	--	--	.36	.00	1.39	--	.14	--	--	--			
FB 2720.00 BIG RIVER NEAR MENDOCINO																				
07/21/71	5050	6.95	10.0	72	F 7.4		--	--	12	--	.0	106	--	7.6	--	.20	--		82	1E
1430	5050		20	113	22	C 7.5	202	--	--	.52	.00	1.74	--	.21	--	--	--			
FB 2720.00 BIG RIVER NEAR MENDOCINO																				
09/15/71	5050	6.90	9.0	68	F 7.2		--	--	12	--	.0	108	--	8.6	--	.40	--		80	1E
1345	5050		10	98	20	C 7.8	208	--	--	.52	.00	1.77	--	.24	--	--	--			

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	00 SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER			MILLIGRAMS PER LITER		
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR		
F8		3100.00		NOYO RIVER NEAR FORT BRAGG																		
11/11/70 1430	5050 5050	70	7.4 70	56.0F 13.3C	7.0 8.0	167	15 .75 46	5.0 .41 25	10 .44 27	1.1 .03 2	.0 .00	75 1.23 75	7.2 .15 9	8.8 .25 15	.0 .00	.20 --	--	83 84	58 4	4E 0.6		
01/06/71 1545	5050 5050	273	10.6 83	41.0F 5.0C	7.1 7.6	109	-- --	-- 5.8 25 23	-- --	.0 .00	.52 .85 78	-- 7.2 18	-- --	.10 --	--	--	--	38	6E			
02/03/71 1445	5050 5050	131	12.3 103	46 F 8 C	7.3 7.8	116	12 .60 51	3.2 .26 22	6.7 .29 25	.6 .02 2	.0 .00	55 .90 78	4.3 .09 8	6.2 .17 15	.0 .00	.00 --	--	71 60	43 2	4E 0.4		
03/03/71 1430	5050 5050	88	9.9 84	47 F 8 C	7.8 7.5	130	-- --	-- 6.3 .27 21	-- --	.0 .00	60 .98 75	-- 6.0 13	-- --	.00 --	--	--	--	50	25E			
05/05/71 1330	5050 5050	4.15 90	10.5 99	55 F 13 C	7.2 7.6	131	-- --	-- 7.0 .30 23	-- --	.0 .00	60 .98 75	-- 5.2 11	-- --	.00 --	--	--	--	48	4E			
07/21/71 1315	5050 5050	12	9.9 108	68 F 20 C	7.2 7.5	160	-- --	-- 10 .44 28	-- --	.0 .00	78 1.28 80	-- 8.4 15	-- --	.10 --	--	--	--	60	1E			
09/15/71 1240	5050 5050	6.2	9.3 98	64 F 18 C	7.1 7.6	165	-- --	-- 11 .48 29	-- --	.0 .00	82 1.34 81	-- 10 17	-- --	.20 --	--	--	--	63	2E			
F9		1100.00		RUSSIAN RIVER NEAR GUERNEVILLE																		
10/23/70 0815	5050 5050	4.96 269	7.0 71	61 F 16 C	7.3 8.0	310 307	26 1.30 42	14 1.16 38	16 .70 23	-- --	.0 .00	138 2.26 74	-- 16 15	-- --	-- --	-- --	-- --	123 10	25E 0.6			
11/19/70 0930	5050	5.14	7.7 70	52 F 11 C	7.7	340	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			
12/18/70 0840	5050 5050	7.05 11600	10.3 89	48 F 9 C	7.2 6.9	150 144	12 .60 42	6.6 .54 37	5.8 .25 17	-- --	.0 .00	67 1.10 76	-- 5.8 11	-- --	-- --	-- --	-- --	57 2	280E 0.3			
02/18/71 1530	5050 5050	6.23 662	11.1 101	52 F 11 C	7.6 8.1	310 315	31 1.55 49	17 1.41 45	12 .52 17	-- --	.0 .00	163 2.67 85	-- 9.9 9	-- --	-- --	-- --	-- --	148 15	10E 0.4			
03/25/71 1430	5050 5050	8.80 2540	13.5 127	55 F 13 C	7.6 7.6	205 220	23 1.15 52	8.6 .71 32	8.2 .36 16	-- --	.0 .00	109 1.79 81	-- 6.3 8	-- --	-- --	-- --	-- --	93 4	80E 0.4			
04/16/71 0720	5050	7.48	9.3 92	59 F 15 C	7.5	260	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			
05/13/71 0800	5050 5050	5.79 656	8.6 91	65.0F 18.3C	7.5 8.3	265 268	23 1.15 43	14 1.21 45	10 .44 16	-- --	.0 .00	144 2.36 88	-- 6.6 7	-- --	-- --	-- --	-- --	118 0	3E 0.4			
06/17/71 0800	5050 5050	4.72	7.2 82	72 F 22 C	7.5 7.7	225 270	25 1.25 46	15 1.31 49	8.3 .36 13	-- --	.0 .00	143 2.34 87	-- 6.0 6	-- --	-- --	-- --	-- --	128 11	30E 0.3			
07/22/71 1100	5050		8.0 94	75 F 24 C	7.8	250	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			
08/25/71 0930	5050 5050	4.82	7.8 92	75 F 24 C	8.0 8.2	240 252	27 1.35 54	11 .93 37	8.2 .36 14	-- --	.0 .00	131 2.15 85	-- 6.6 8	-- --	-- --	-- --	-- --	114 7	2E 0.3			
09/28/71 1400	5050 5050	4.92	9.8 104	65 F 18 C	7.9 8.3	278 277	23 1.15 42	13 1.09 39	11 .48 17	-- --	.0 .00	144 2.36 85	-- 10 10	-- --	-- --	-- --	-- --	112 6	4E 0.5			
F9		1765.00		RUSSIAN RIVER NEAR HOPLAND																		
05/20/71 1630	5000	334					-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			
F9		1850.00		RUSSIAN RIVER NEAR UKIAH																		
05/20/71 1300	5000	2.50 21					-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Constituents

- MBAS - Methylene blue active substance,
a measure of detergent surfactants
- BOD - Biological oxygen demand

Abbreviations

- Mg/L - Milligrams per liter
- Ug/L - Micrograms per liter
- Ft. - Feet

Lab and Sampler Agency Codes

- 5000 - U. S. Geological Survey
- 5001 - U. S. Bureau of Reclamation
- 5006 - McClellan Air Force Base Laboratory
- 5050 - Department of Water Resources
- 5063 - Santa Cruz County Health Department

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents	Samp	Lob	
DO 1100.00	BRANCIFORTE CREEK AT SANTA CRUZ	03-15-71 1530	MBAS	0.0 Mg/L	5063	5050
			Suspended Solids	24 Mg/L		
		05-18-71 1300	Arsenic	0.00 Mg/L		
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
Mercury, Total	0.2 Ug/L					
09-27-71 1230	MBAS	0.0 Mg/L	5063	5050		
Suspended Solids	40 Mg/L					
DO 1180.01	SAN LORENZO RIVER AT PARADISE PARK	03-15-71 1200	MBAS	0.0 Mg/L	5063	5050
			Suspended Solids	38 Mg/L		
		05-18-71 1220	Arsenic	0.00 Mg/L		
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
Mercury, Total	0.1 Ug/L					
09-27-71 1010	MBAS	0.0 Mg/L	5063	5050		
Suspended Solids	2 Mg/L					
DO 1220.01	ZAYANTE CREEK AT FELTON	03-15-71 1110	MBAS	0.0 Mg/L	5063	5050
			Suspended Solids	393 Mg/L		
		05-18-71 1050	Arsenic	0.00 Mg/L		
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
Mercury, Total	0.0 Ug/L					
09-27-71 0940	MBAS	0.0 Mg/L	5063	5050		
Suspended Solids	0.0 Mg/L					
DO 1498.01	SAN LORENZO RIVER AT BOULDER CREEK	03-15-71 1000	MBAS	0.0 Mg/L	5063	5050
			Suspended Solids	72 Mg/L		
		05-18-71 1000	Arsenic	0.00 Mg/L		
			Barium	0.2 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
Mercury, Total	0.0 Ug/L					
09-27-71 0900	MBAS	0.0 Mg/L	5063	5050		
Suspended Solids	13 Mg/L					
DO 2020.00	APTOS CREEK BELOW VALENCIA CREEK NEAR APTOS	03-15-71 1350	MBAS	0.0 Mg/L	5063	5050
			Suspended Solids	84 Mg/L		
		05-18-71 1400	Arsenic	0.00 Mg/L		
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
Mercury, Total	0.1 Ug/L					
09-27-71 1350	MBAS	0.0 Mg/L	5063	5050		
Suspended Solids	0.0 Mg/L					
DO 3100.00	SOQUEL CREEK AT SOQUEL	03-15-71 1430	MBAS	0.0 Mg/L	5063	5050
			Suspended Solids	18 Mg/L		
		05-18-71 1330	Arsenic	0.00 Mg/L		
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
Mercury, Total	0.0 Ug/L					
09-27-71 1300	MBAS	0.0 Mg/L	5063	5050		
Suspended Solids	0.0 Mg/L					
DO 4010.01	SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT	03-15-71 0900	MBAS	0.0 Mg/L	5063	5050
			Suspended Solids	20 Mg/L		
		05-18-71 0830	Arsenic	0.00 Mg/L		
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
Mercury, Total	0.0 Ug/L					
09-27-71 0750	MBAS	0.0 Mg/L	5063	5050		
Suspended Solids	8 Mg/L					
D1 1006.30	WATSONVILLE SLOUGH AT SAN ANDRES ROAD	05-05-71 1000	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.2 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.0 Ug/L		
			Selenium	0.01 Mg/L		

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents		Samp	Lab
D1 1006.30	WATSONVILLE SLOUGH AT SAN ANDRES ROAD (Continued)	07-08-71 1205	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.2 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.0 Ug/L		
			Selenium	0.00 Mg/L		
D1 1075.30	PAJARO RIVER AT THURWACHTER ROAD	05-05-71 1030	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.2 Ug/L		
			Selenium	0.01 Mg/L		
	07-08-71 1150	Arsenic	0.00 Mg/L	5050	5050	
		Barium	0.1 Mg/L			
		Cadmium	0.00 Mg/L			
		Lead	0.00 Mg/L			
		Mercury, Total	0.0 Ug/L			
		Selenium	0.01 Mg/L			
D1 1250.00	PAJARO RIVER NEAR CHITTENDEN	05-05-71 1130	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.5 Ug/L		
			Selenium	0.01 Mg/L		
	07-08-71 1100	Arsenic	0.00 Mg/L	5050	5050	
		Barium	0.1 Mg/L			
		Cadmium	0.00 Mg/L			
		Lead	0.01 Mg/L			
		Mercury, Total	0.0 Ug/L			
		Selenium	0.00 Mg/L			
D1 1371.50	UVAS CREEK NEAR MORGAN HILL BELOW UVAS DAM	05-05-71 1000	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.1 Ug/L		
			Selenium	0.00 Mg/L		
D1 1475.50	PLANEL AGRICULTURAL DRAIN ABOVE LLAGAS CREEK	05-05-71 1245	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.1 Ug/L		
			Selenium	0.01 Mg/L		
	07-08-71 1030	Arsenic	0.00 Mg/L	5050	5050	
		Barium	0.2 Mg/L			
		Cadmium	0.00 Mg/L			
		Lead	0.00 Mg/L			
		Mercury, Total	0.0 Ug/L			
		Selenium	0.01 Mg/L			
D1 2450.00	SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL	05-05-71 0900	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.0 Ug/L		
			Selenium	0.00 Mg/L		
D1 3220.20	ELKHORN SLOUGH AT BRIDGE NEAR HALL	05-05-71 0915	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.2 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.3 Ug/L		
			Selenium	0.00 Mg/L		
	07-08-71 0945	Arsenic	0.00 Mg/L	5050	5050	
		Barium	0.1 Mg/L			
		Cadmium	0.00 Mg/L			
		Lead	0.00 Mg/L			
		Mercury, Total	0.0 Ug/L			
		Selenium	0.00 Mg/L			
D2 1006.30	TEMLADERO SLOUGH AT NASHUA ROAD	05-05-71 1450	Arsenic	0.01 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.2 Ug/L		
			Selenium	0.01 Mg/L		
	07-07-71 1500	Arsenic	0.00 Mg/L	5050	5050	
		Barium	0.2 Mg/L			
		Cadmium	0.00 Mg/L			
		Lead	0.00 Mg/L			
		Mercury, Total	0.0 Ug/L			
		Selenium	0.00 Mg/L			

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents	Samp	Lab	
D2 1006.60	TEMLADERO SLOUGH AT MERRITT LAKE DRAIN	05-05-71 1300	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.2 Ug/L 0.00 Mg/L	5050	5050
		07-07-71 1445	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D2 1009.20	SALINAS RECLAMATION CANAL BELOW ALISAL SLOUGH	05-05-71 1230	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.01 Mg/L	5050	5050
		07-07-71 1445	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D2 1020.70	SALINAS RECLAMATION CANAL AT AIRPORT WAY	05-05-71 1030	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.02 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
		07-07-71 1335	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D2 1030.30	BLANCO DRAIN AT PUMP LIFT	05-05-71 1200	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.01 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.01 Mg/L	5050	5050
		07-07-71 1430	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D2 1110.50	SALINAS RIVER AT TWIN BRIDGES	05-05-71 0800	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.2 Ug/L 0.01 Mg/L	5050	5050
		07-07-71 0855	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.1 Ug/L 0.02 Mg/L	5050	5050
D2 1325.10	SALINAS RIVER NEAR GONZALES	05-05-71 1230	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
		07-07-71 1520	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.01 Mg/L	5050	5050
D2 1450.00	ARROYO SECO NEAR SOLEDAD	05-05-71 1140	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
		07-07-71 1440	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents		Samp	Lab
D2 1850.00	SALINAS RIVER NEAR BRADLEY	05-05-71 1000	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
		Lead	0.00 Mg/L			
		Mercury, Total	0.3 Ug/L			
		Selenium	0.00 Mg/L			
D4 1010.50	CARMEL RIVER AT HIGHWAY 1	05-05-71 1430	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
		Lead	0.00 Mg/L			
		Mercury, Total	0.0 Ug/L			
		Selenium	0.01 Mg/L			
D4 1200.00	CARMEL RIVER AT ROBLES DEL RIO	07-07-71 0700	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
		Lead	0.00 Mg/L			
		Mercury, Total	0.0 Ug/L			
		Selenium	0.01 Mg/L			
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHLP CHANNEL)	03-16-71 1020	Suspended Solids	48 Mg/L	5050	5050
		04-13-71 0920	Suspended Solids	26 Mg/L	5050	5050
		06-23-71 0810	Suspended Solids	11 Mg/L	5050	5050
		07-08-71 0820	Suspended Solids	9 Mg/L	5050	5050
		08-10-71 1030	Suspended Solids	18 Mg/L	5050	5050
		09-21-71 0915	Suspended Solids	43 Mg/L	5050	5050
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	10-21-70 1000	Suspended Solids	2 Mg/L	5050	5050
		11-17-70 0950	Suspended Solids	12 Mg/L	5050	5050
		12-16-70 0815	Suspended Solids	29 Mg/L	5050	5050
		01-28-71 0750	Suspended Solids	60 Mg/L	5050	5050
		02-17-71 1330	Suspended Solids	14 Mg/L	5050	5050
		05-11-71 0810	Suspended Solids	136 Mg/L	5050	5050
			Arsenic	0.00 Mg/L		
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.0 Ug/L		
			Selenium	0.00 Mg/L		
EO B 736.2 212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	06-23-71 0845	Suspended Solids	15 Mg/L	5050	5050
		07-08-71 0915	Suspended Solids	8 Mg/L	5050	5050
		08-10-71 1115	Suspended Solids	15 Mg/L	5050	5050
		09-21-71 1050	Suspended Solids	13 Mg/L	5050	5050
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	10-21-70 1030	Suspended Solids	0 Mg/L	5050	5050
		11-17-70 1100	Suspended Solids	12 Mg/L	5050	5050
		12-16-70 1030	Suspended Solids	11 Mg/L	5050	5050
		01-28-71 0730	Suspended Solids	17 Mg/L	5050	5050
		02-17-71 1350	Suspended Solids	6 Mg/L	5050	5050
		03-16-71 1005	Suspended Solids	32 Mg/L	5050	5050
		04-13-71 0910	Suspended Solids	23 Mg/L	5050	5050

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents		Samp	Lab		
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND (Continued)	05-11-71 0812	Suspended Solids	20	Mg/L	5050	5050	
			Arsenic	0.00	Mg/L			
			Barium	0.2	Mg/L			
			Cadmium	0.00	Mg/L			
			Lead	0.00	Mg/L			
			Mercury, Total	0.4	Ug/L			
Selenium	0.00	Mg/L						
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	06-23-71 0700	Suspended Solids	16	Mg/L	5050	5050	
			07-08-71 0640	Suspended Solids	14	Mg/L	5050	5050
				Suspended Solids	19	Mg/L	5050	5050
				Suspended Solids	13	Mg/L	5050	5050
EO B 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	10-21-70 1120	Suspended Solids	2	Mg/L	5050	5050	
			11-17-70 1145	Suspended Solids	7	Mg/L	5050	5050
				Suspended Solids	16	Mg/L	5050	5050
				Suspended Solids	21	Mg/L	5050	5050
			02-17-71 1450	Suspended Solids	10	Mg/L	5050	5050
				Suspended Solids	30	Mg/L	5050	5050
				Suspended Solids	39	Mg/L	5050	5050
			05-11-71 1000	Suspended Solids	33	Mg/L	5050	5050
				Arsenic	0.00	Mg/L		
				Barium	0.0	Mg/L		
				Cadmium	0.00	Mg/L		
Lead	0.00	Mg/L						
Mercury, Total	0.0	Ug/L						
Selenium	0.00	Mg/L						
EO B 801.8 222.3	SAN PABLO BAY NEAR PINOLE POINT	03-24-71 1130	Secchi Disk	3.0	Ft.	5001	5001	
			BOD (5 days)	0.5	Mg/L			
			BOD (7 days)	0.7	Mg/L			
		04-21-71 1055	Secchi Disk	1.8	Ft.	5001	5001	
			BOD (7 days)	1.9	Mg/L			
		05-19-71 1130	Secchi Disk	1.8	Ft.	5001	5001	
			BOD (7 days)	0.7	Mg/L			
			Suspended Solids	24	Mg/L	5001	5006	
		06-16-71 0930	Volatile Suspended Solids	2	Mg/L			
			Secchi Disk	2.8	Ft.	5001	5001	
			Suspended Solids	14	Mg/L	5001	5006	
		07-15-71 0950	Volatile Suspended Solids	0	Mg/L			
			Secchi Disk	2.9	Ft.	5001	5001	
			BOD (7 days)	1.5	Mg/L			
			Suspended Solids	23	Mg/L	5001	5006	
			Volatile Suspended Solids	3	Mg/L			
			Cadmium, Total	0.01	Mg/L			
			Chromium	<0.01	Mg/L			
			Copper, Total	0.08	Mg/L			
			Iron	<0.1	Mg/L			
			Lead, Total	<0.01	Mg/L			
		Manganese	<0.05	Mg/L				
		Zinc, Total	0.04	Mg/L				
08-17-71 1430	Secchi Disk	2.0	Ft.	5001	5001			
	BOD (7 days)	1.3	Mg/L					
	Suspended Solids	19	Mg/L	5001	5006			
	Volatile Suspended Solids	0	Mg/L					
09-15-71 1310	Secchi Disk	3.5	Ft.	5001	5001			
	BOD (7 days)	1.4	Mg/L					
	Suspended Solids	10	Mg/L	5001	5006			
	Volatile Suspended Solids	6	Mg/L					
	Cadmium, Total	0.01	Mg/L					
	Chromium	<0.01	Mg/L					
	Copper, Total	0.08	Mg/L					
	Iron	0.2	Mg/L					
	Lead, Total	<0.01	Mg/L					
	Manganese	<0.05	Mg/L					
	Zinc, Total	0.03	Mg/L					
	EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	10-07-70 1045	Secchi Disk	0.6	Ft.	5001	5001
BOD (5 days)				1.9	Mg/L			
Suspended Solids				82	Mg/L	5001	5006	

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents	Samp	Lab		
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ (Continued)	11-20-70 1035	Secchi Disk	1.3 Ft.	5001	5001	
			BOD (5 days)	0.7 Mg/L			
		03-04-71 0825	Suspended Solids	17 Mg/L	5001	5006	
			Cadmium	0.01 Mg/L			
			Chromium	<0.01			
			Copper	<0.05			
			Iron	<0.1			
			Lead	<0.01			
			Manganese, Total	<0.05			
			Zinc	<0.1			
			03-24-71 1300	Secchi Disk	0.8 Ft.	5001	5001
				04-06-71 1130	Secchi Disk	1.3 Ft.	5001
		BOD (5 days)			0.5 Mg/L		
		04-21-71 1205	BOD (7 days)	0.8 Mg/L			
			Secchi Disk	0.8 Ft.	5001	5001	
		05-04-71 1105	Secchi Disk	0.8 Ft.	5001	5001	
			BOD (7 days)	1.3 Mg/L			
			Suspended Solids	38 Mg/L	5001	5006	
			Cadmium, Total	0.01 Mg/L			
			Chromium	<0.01 Mg/L			
			Copper, Total	<0.05 Mg/L			
			Iron	<0.1 Mg/L			
			Lead, Total	<0.01 Mg/L			
			Manganese	<0.05 Mg/L			
			Zinc, Total	<0.01 Mg/L			
			05-19-71 1245	Secchi Disk	1.0 Ft.	5001	5001
		06-02-71 1105		Secchi Disk	1.1 Ft.	5001	5001
			BOD (7 days)	1.1 Mg/L			
			Suspended Solids	42 Mg/L	5001	5006	
			Volatile Suspended Solids	10 Mg/L			
			Cadmium, Total	<0.01 Mg/L			
			Chromium	<0.01 Mg/L			
Copper, Total	0.07 Mg/L						
Iron	<0.1 Mg/L						
Lead, Total	<0.01 Mg/L						
Manganese	<0.05 Mg/L						
Zinc, Total	0.03 Mg/L						
06-16-71 1100	Secchi Disk	1.2 Ft.	5001	5001			
	06-30-71 0925	Secchi Disk	1.5 Ft.	5001	5001		
BOD (7 days)		2.8 Mg/L					
Suspended Solids		30 Mg/L	5001	5006			
Volatile Suspended Solids		5 Mg/L					
Cadmium, Total		<0.01 Mg/L					
Chromium		<0.01 Mg/L					
Copper, Total		<0.05 Mg/L					
Iron		<0.1 Mg/L					
Lead, Total		<0.01 Mg/L					
Manganese		<0.05 Mg/L					
Zinc, Total	0.04 Mg/L						
07-15-71 1115	Secchi Disk	2.3 Ft.	5001	5001			
	08-03-71 1345	Secchi Disk	1.9 Ft.	5001	5001		
BOD (7 days)		1.9 Mg/L					
Suspended Solids		16 Mg/L	5001	5006			
Volatile Suspended Solids		3 Mg/L					
Cadmium, Total		<0.01 Mg/L					
Chromium		<0.01 Mg/L					
Copper, Total		0.06 Mg/L					
Iron		0.2 Mg/L					
Lead, Total		<0.01 Mg/L					
Manganese		<0.05 Mg/L					
Zinc, Total	0.03 Mg/L						
08-17-71 1535	Secchi Disk	1.5 Ft.	5001	5001			
	08-31-71 1245	Secchi Disk	0.9 Ft.	5001	5001		
BOD (7 days)		1.7 Mg/L					
Suspended Solids		93 Mg/L	5001	5006			
Volatile Suspended Solids		10 Mg/L					
09-15-71 1415	Secchi Disk	2.2 Ft.	5001	5001			
	09-28-71 1050	Secchi Disk	1.3 Ft.	5001	5001		
BOD (7 days)		1.1 Mg/L					
Suspended Solids		18 Mg/L	5001	5006			
Volatile Suspended Solids		6 Mg/L					

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents		Samp	Lab	
EO B 802.5 208.1	SUISUN BAY AT BENICIA (MIDDLE OF PIER)	06-03-71 1015	Arsenic	0.00	Mg/L	5050	5050
			Barium	0.0	Mg/L		
			Cadmium	0.00	Mg/L		
			Lead	0.00	Mg/L		
			Mercury, Total	0.2	Ug/L		
			Selenium	0.00	Mg/L		
EO B 802.8 155.0	SACRAMENTO RIVER AT CHIPPS ISLAND	10-07-70 1200	Secchi Disk	0.7	Ft.	5001	5001
			BOD (5 days)	1.4	Mg/L		
			Suspended Solids	87	Mg/L		
		11-20-70 1130	Secchi Disk	1.3	Ft.	5001	5001
			BOD (5 days)	0.7	Mg/L		
			Suspended Solids	18	Mg/L		
		03-04-71 1000	Cadmium	<0.01	Mg/L	5001	5006
			Chromium	<0.01	Mg/L		
			Copper	<0.05	Mg/L		
			Iron	<0.1	Mg/L		
			Lead	<0.01	Mg/L		
			Manganese, Total	<0.05	Mg/L		
			Zinc	<0.1	Mg/L		
			Secchi Disk	0.9	Ft.		
			BOD (7 days)	1.2	Mg/L		
			Suspended Solids	45	Mg/L		
		03-24-71 1345	Secchi Disk	0.8	Ft.	5001	5001
		04-06-71 1245	Secchi Disk	0.8	Ft.	5001	5001
			BOD (5 days)	1.4	Mg/L		
			BOD (7 days)	1.6	Mg/L		
		04-21-71 1255	Secchi Disk	1.0	Ft.	5001	5001
		05-04-71 1305	Secchi Disk	1.4	Ft.	5001	5001
			BOD (7 days)	1.3	Mg/L		
			Suspended Solids	30	Mg/L		
			Cadmium, Total	<0.01	Mg/L		
			Chromium	<0.01	Mg/L		
			Copper, Total	<0.05	Mg/L		
			Iron	<0.1	Mg/L		
			Lead, Total	<0.01	Mg/L		
		Manganese	<0.05	Mg/L			
		05-19-71 1335	Secchi Disk	1.1	Ft.	5001	5001
06-02-71 1235	Secchi Disk	1.4	Ft.	5001	5001		
	BOD (7 days)	1.4	Mg/L				
	Suspended Solids	36	Mg/L				
	Volatile Suspended Solids	9	Mg/L				
	Cadmium, Total	<0.01	Mg/L				
	Chromium	<0.01	Mg/L				
	Copper, Total	0.06	Mg/L				
	Iron	<0.1	Mg/L				
	Lead, Total	<0.01	Mg/L				
	Manganese	<0.05	Mg/L				
	Zinc, Total	0.03	Mg/L				
06-16-71 1150	Secchi Disk	1.3	Ft.	5001	5001		
06-30-71 1105	Secchi Disk	1.2	Ft.	5001	5001		
	BOD (7 days)	1.7	Mg/L				
	Suspended Solids	34	Mg/L				
	Volatile Suspended Solids	5	Mg/L				
	Cadmium, Total	<0.01	Mg/L				
	Chromium	<0.01	Mg/L				
	Copper, Total	<0.05	Mg/L				
	Iron	0.1	Mg/L				
	Lead, Total	<0.01	Mg/L				
	Manganese	<0.05	Mg/L				
	Zinc, Total	<0.01	Mg/L				
07-15-71 1205	Secchi Disk	1.3	Ft.	5001	5001		
08-03-71 1520	Secchi Disk	0.8	Ft.	5001	5001		
	BOD (7 days)	1.7	Mg/L				
	Suspended Solids	57	Mg/L				
	Volatile Suspended Solids	6	Mg/L				
	Cadmium, Total	<0.01	Mg/L				
	Chromium	<0.01	Mg/L				
	Copper, Total	0.05	Mg/L				
	Iron	0.1	Mg/L				
	Lead, Total	<0.01	Mg/L				
	Manganese	<0.05	Mg/L				
Zinc, Total	0.03	Mg/L					
08-31-71 1430	Secchi Disk	1.2	Ft.	5001	5001		
	BOD (7 days)	1.4	Mg/L				
	Suspended Solids	60	Mg/L				
	Volatile Suspended Solids	5	Mg/L				

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents	Samp	Lab			
EO B 802.8 155.0	SACRAMENTO RIVER AT CHIPPS ISLAND (Continued)	09-15-71 1500	Secchi Disk	0.8 Ft.	5001	5001		
			Cadmium, Total	<0.01 Mg/L	5001	5006		
				Chromium	<0.01 Mg/L			
				Copper, Total	<0.05 Mg/L			
				Iron	0.1 Mg/L			
				Lead, Total	<0.01 Mg/L			
				Manganese	<0.05 Mg/L			
				Zinc, Total	0.02 Mg/L			
				09-28-71 1230	Secchi Disk	1.3 Ft.	5001	5001
					BOD (7 days)	1.2 Mg/L		
			Suspended Solids	26 Mg/L	5001	5006		
			Volatile Suspended Solids	5 Mg/L				
EO B 803.2 204.8	SUISUN BAY ABOVE AVON PIER	10-09-70 1235	Secchi Disk	1.2 Ft.	5001	5001		
		03-04-71 0845	Secchi Disk BOD (5 days)	1.1 Ft. 1.8 Mg/L	5001	5001		
EO B 803.5 217.0	SAN PABLO BAY NEAR RODEO	03-24-71 1200	Secchi Disk BOD (5 days) BOD (7 days)	2.0 Ft. 0.5 Mg/L 1.2 Mg/L	5001	5001		
		04-21-71 1120	Secchi Disk BOD (7 days)	1.2 Ft. 1.1 Mg/L	5001	5001		
		05-19-71 1200	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.1 Ft. 2.0 Mg/L 34 Mg/L 4 Mg/L	5001	5001 5001 5006		
		06-06-71 1005	Secchi Disk Suspended Solids Volatile Suspended Solids	1.8 Ft. 27 Mg/L 7 Mg/L	5001 5001	5001 5006		
		07-15-71 1025	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.7 Ft. 1.0 Mg/L 31 Mg/L 2 Mg/L	5001	5001 5001 5006		
		08-17-71 1500	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.3 Ft. 1.3 Mg/L 39 Mg/L 5 Mg/L	5001	5001 5001 5006		
		09-15-71 1340	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	2.1 Ft. 0.9 Mg/L 11 Mg/L 5 Mg/L	5001	5001 5001 5006		
		10-09-70 1310	Secchi Disk BOD (5 days)	0.8 Ft. 1.7 Mg/L	5001	5001		
		03-04-71 0915	Secchi Disk	0.7 Ft.	5001	5001		
		05-04-71 1215	Secchi Disk	0.8 Ft.	5001	5001		
		06-02-71 1150	Secchi Disk	1.3 Ft.	5001	5001		
		06-30-71 1020	Secchi Disk	0.8 Ft.	5001	5001		
		08-03-71 1435	Secchi Disk	0.9 Ft.	5001	5001		
08-31-71 1340	Secchi Disk	0.8 Ft.	5001	5001				
09-28-71 1145	Secchi Disk	1.0 Ft.	5001	5001				
EO B 804.0 203.0	SUISUN BAY NEAR PRESTON POINT	10-09-70 1245	Secchi Disk BOD (5 days)	0.9 Ft. 2.0 Mg/L	5001	5001		
		03-04-71 0900	Secchi Disk	0.6 Ft.	5001	5001		
		05-04-71 1150	Secchi Disk Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	0.3 Ft. 0.01 Mg/L <0.01 Mg/L <0.05 Mg/L <0.1 Mg/L <0.01 Mg/L <0.05 Mg/L 0.1 Mg/L	5001 5001	5001 5006		
		06-02-71 1130	Secchi Disk Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	1.1 Ft. <0.01 Mg/L <0.01 Mg/L 0.06 Mg/L 0.1 Mg/L <0.01 Mg/L <0.05 Mg/L 0.03 Mg/L	5001 5001	5001 5006		

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents		Samp	Lab	
EO B 804.0 203.0	SUISUN BAY NEAR PRESTON POINT (Continued)	06-30-71 0955	Secchi Disk	0.8 Ft.	5001	5001	
			Cadmium, Total	<0.01 Mg/L	5001	5006	
			Chromium	<0.01 Mg/L			
			Copper, Total	<0.05 Mg/L			
			Iron	<0.1 Mg/L			
			Lead, Total	<0.01 Mg/L			
			Manganese	<0.05 Mg/L			
			Zinc, Total	0.04 Mg/L			
			08-03-71 1415	Secchi Disk	1.0 Ft.	5001	5001
		Cadmium, Total		<0.01 Mg/L	5001	5006	
			Chromium	<0.01 Mg/L			
			Copper, Total	0.06 Mg/L			
			Iron	<0.1 Mg/L			
			Lead, Total	<0.01 Mg/L			
			Manganese	<0.05 Mg/L			
	Zinc, Total	0.04					
	08-31-71 1310	Secchi Disk	0.7 Ft.	5001	5001		
	09-28-71 1115	Secchi Disk	0.8 Ft.	5001	5001		
EO B 804.4 156.2	HONKER BAY NEAR WHEELER POINT	10-09-70 1330	Secchi Disk	0.7 Ft.	5001	5001	
			BOD (5 days)	1.7 Mg/L			
		03-04-71 0935	Secchi Disk	0.8 Ft.	5001	5001	
			BOD (7 days)	1.3 Mg/L			
			Suspended Solids	39 Mg/L	5001	5006	
		03-23-71 1135	Secchi Disk	0.8 Ft.	5001	5001	
		04-06-71 1215	Secchi Disk	1.0 Ft.	5001	5001	
			BOD (5 days)	0.6 Mg/L			
			BOD (7 days)	1.4 Mg/L			
		04-20-71 1030	Secchi Disk	0.9 Ft.	5001	5001	
		05-04-71 1240	Secchi Disk	1.2 Ft.	5001	5001	
			BOD (7 days)	3.0 Mg/L			
			Suspended Solids	32 Mg/L	5001	5006	
		05-18-71 1020	Secchi Disk	0.8 Ft.	5001	5001	
		06-02-71 1210	Secchi Disk	1.3 Ft.	5001	5001	
			BOD (7 days)	1.5 Mg/L			
			Suspended Solids	54 Mg/L	5001	5006	
			Volatile Suspended Solids	10 Mg/L			
		06-15-71 0940	Secchi Disk	1.0 Ft.	5001	5001	
		06-30-71 1035	Secchi Disk	0.8 Ft.	5001	5001	
			BOD (7 days)	1.8 Mg/L			
			Suspended Solids	50 Mg/L	5001	5006	
			Volatile Suspended Solids	5 Mg/L			
		07-14-71 0835	Secchi Disk	0.7 Ft.	5001	5001	
08-03-71 1455	Secchi Disk	0.8 Ft.	5001	5001			
	BOD (7 days)	1.7 Mg/L					
	Suspended Solids	72 Mg/L	5001	5006			
	Volatile Suspended Solids	10 Mg/L					
08-16-71 1245	Secchi Disk	0.8 Ft.	5001	5001			
08-31-71 1400	Secchi Disk	0.7 Ft.	5001	5001			
	BOD (7 days)	1.2 Mg/L					
	Suspended Solids	87 Mg/L	5001	5006			
	Volatile Suspended Solids	10 Mg/L					
09-14-71 1310	Secchi Disk	1.0 Ft.	5001	5001			
09-28-71 1200	Secchi Disk	1.1 Ft.	5001	5001			
	BOD (7 days)	1.3 Mg/L					
	Suspended Solids	44 Mg/L	5001	5006			
	Volatile Suspended Solids	8 Mg/L					
EO B 805.3 226.3	SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER	03-24-71 1100	Secchi Disk	1.4 Ft.	5001	5001	
			BOD (5 days)	0.5 Mg/L			
			BOD (7 days)	0.5 Mg/L			
		04-21-71 1015	Secchi Disk	1.1 Ft.	5001	5001	
			BOD (7 days)	1.2 Mg/L			
		05-19-71 1050	Secchi Disk	0.8 Ft.	5001	5001	
			BOD (7 days)	1.7 Mg/L			
			Suspended Solids	38 Mg/L	5001	5006	
			Volatile Suspended Solids	6 Mg/L			
		06-16-71 0840	Secchi Disk	1.8 Ft.	5001	5001	
			Suspended Solids	16 Mg/L	5001	5006	
			Volatile Suspended Solids	0 Mg/L			

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents	Samp	Lab	
EO B 805.3 226.3	SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER (Continued)	07-15-71 0915	Secchi Disk	1.5 Ft.	5001	5001
			BOD (7 days)	2.2 Mg/L		
			Suspended Solids	32 Mg/L	5001	5006
			Volatile Suspended Solids	3 Mg/L		
		08-17-71 1335	Secchi Disk	0.8 Ft.	5001	5001
			BOD (7 days)	1.5 Mg/L		
			Suspended Solids	19 Mg/L	5001	5006
			Volatile Suspended Solids	8 Mg/L		
		09-15-71 1240	Secchi Disk	3.5 Ft.	5001	5001
			BOD (7 days)	2.3 Mg/L		
			Suspended Solids	10 Mg/L	5001	5006
			Volatile Suspended Solids	5 Mg/L		
EO B 807.0 202.3	GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH	10-07-70 1000	Secchi Disk	0.4 Ft.	5001	5001
			BOD (5 days)	1.9 Mg/L		
			Suspended Solids	24.5 Mg/L	5001	5006
		11-20-70 1000	Secchi Disk	0.7 Ft.	5001	5001
			BOD (5 days)	0.8 Mg/L		
			Suspended Solids	65 Mg/L	5001	5006
		03-04-71 0755	Secchi Disk	0.6 Ft.	5001	5001
			BOD (7 days)	0.9 Mg/L		
			Suspended Solids	43 Mg/L	5001	5006
		03-23-71 1030	Secchi Disk	1.0 Ft.	5001	5001
		04-06-71 1030	Secchi Disk	0.8 Ft.	5001	5001
			BOD (5 days)	0.9 Mg/L		
			BOD (7 days)	1.0 Mg/L		
		04-20-71 0955	Secchi Disk	0.4 Ft.	5001	5001
		05-04-71 1015	Secchi Disk	0.7 Ft.	5001	5001
			BOD (7 days)	1.1 Mg/L		
			Suspended Solids	88 Mg/L	5001	5006
			Cadmium, Total	0.01 Mg/L		
			Chromium	<0.01 Mg/L		
			Copper, Total	<0.05 Mg/L		
			Iron	<0.1 Mg/L		
			Lead, Total	<0.01 Mg/L		
			Manganese	<0.05 Mg/L		
			Zinc, Total	<0.01 Mg/L		
		05-18-71 0920	Secchi Disk	0.7 Ft.	5001	5001
		06-02-71 1020	Secchi Disk	0.7 Ft.	5001	5001
			BOD (7 days)	1.7 Mg/L		
			Suspended Solids	84 Mg/L	5001	5006
Volatile Suspended Solids	10 Mg/L					
Cadmium, Total	<0.01 Mg/L					
Chromium	<0.01 Mg/L					
Copper, Total	0.06 Mg/L					
Iron	<0.1 Mg/L					
Lead, Total	<0.01 Mg/L					
Manganese	<0.05 Mg/L					
Zinc, Total	0.03 Mg/L					
06-15-71 0900	Secchi Disk	0.8 Ft.	5001	5001		
06-30-71 0835	Secchi Disk	0.6 Ft.	5001	5001		
	BOD (7 days)	1.9 Mg/L				
	Suspended Solids	95 Mg/L	5001	5006		
	Volatile Suspended Solids	10 Mg/L				
	Cadmium, Total	<0.01 Mg/L				
	Chromium	<0.01 Mg/L				
	Copper, Total	<0.05 Mg/L				
	Iron	<0.1 Mg/L				
	Lead, Total	<0.01 Mg/L				
	Manganese	<0.05 Mg/L				
Zinc, Total	0.04 Mg/L					
07-14-71 0745	Secchi Disk	0.8 Ft.	5001	5001		
08-03-71 1300	Secchi Disk	0.8 Ft.	5001	5001		
	BOD (7 days)	2.6 Mg/L				
	Suspended Solids	68 Mg/L	5001	5006		
	Volatile Suspended Solids	9 Mg/L				
	Cadmium, Total	<0.01 Mg/L				
	Chromium	<0.01 Mg/L				
	Copper, Total	0.09 Mg/L				
	Iron	0.2 Mg/L				
	Lead, Total	<0.01 Mg/L				
	Manganese	<0.05 Mg/L				
Zinc, Total	0.05 Mg/L					
08-16-71 1200	Secchi Disk	0.7 Ft.	5001	5001		
08-31-71 1200	Secchi Disk	0.6 Ft.	5001	5001		
	BOD (7 days)	1.0 Mg/L				

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents		Samp	Lab	
EO B 807.0 202.3	GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH (Continued)	08-31-71	Suspended Solids	47	Mg/L	5001	5006
		1200	Volatile Suspended Solids	7	Mg/L		
		09-14-71	Secchi Disk	0.7	Ft.	5001	5001
		1200	Cadmium, Total	<0.01	Mg/L	5001	5006
			Chromium	<0.01	Mg/L		
			Copper, Total	<0.05	Mg/L		
			Iron	<0.1	Mg/L		
			Lead, Total	<0.01	Mg/L		
			Manganese	<0.05	Mg/L		
			Zinc, Total	0.02	Mg/L		
		09-28-71	Secchi Disk	0.8	Ft.	5001	5001
		0950	BOD (7 days)	1.5	Mg/L		
			Suspended Solids	35	Mg/L	5001	5006
	Volatile Suspended Solids	4	Mg/L				
EO S 809.2 205.3	CORDELIA SLOUGH AT CYGNUS	10-07-70	Secchi Disk	0.5	Ft.	5001	5001
		0840	BOD (5 days)	1.9	Mg/L		
		11-06-70	Secchi Disk	0.7	Ft.	5001	5001
		0920	BOD (5 days)	1.4	Mg/L		
			Suspended Solids	109	Mg/L	5001	5006
		12-09-70	Secchi Disk	0.5	Ft.	5001	5001
		1040	BOD (5 days)	2.7	Mg/L		
		01-06-71	Secchi Disk	0.6	Ft.	5001	5001
		1020	BOD (5 days)	1.8	Mg/L		
		02-05-71	Secchi Disk	0.5	Ft.	5001	5001
		1000	BOD (5 days)	1.1	Mg/L		
			BOD (7 days)	1.6	Mg/L		
		03-05-71	Secchi Disk	0.4	Ft.	5001	5001
		0915	BOD (5 days)	1.4	Mg/L		
			BOD (7 days)	1.8	Mg/L		
		04-05-71	Secchi Disk	0.4	Ft.	5001	5001
		1020					
		05-17-71	Secchi Disk	0.5	Ft.	5001	5001
		1115	BOD (5 days)	2.9	Mg/L		
			Suspended Solids	193	Mg/L	5001	5006
	Volatile Suspended Solids	20	Mg/L				
06-18-71	Secchi Disk	0.4	Ft.	5001	5001		
1015	BOD (5 days)	2.8	Mg/L				
07-30-71	Secchi Disk	0.7	Ft.	5001	5001		
1005	BOD (5 days)	2.0	Mg/L				
08-27-71	Secchi Disk	0.5	Ft.	5001	5001		
0900	Suspended Solids	62	Mg/L	5001	5006		
	Volatile Suspended Solids	2	Mg/L				
09-27-71	Secchi Disk	0.4	Ft.	5001	5001		
1000	BOD (7 days)	1.9	Mg/L				
EO S 810.8 202.8	SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND	10-07-70	Secchi Disk	0.5	Ft.	5001	5001
		1040	BOD (5 days)	1.6	Mg/L		
		11-06-70	Secchi Disk	0.6	Ft.	5001	5001
		1215	BOD (5 days)	1.4	Mg/L		
			Suspended Solids	72	Mg/L	5001	5006
		12-09-70	Secchi Disk	0.5	Ft.	5001	5001
		1305	BOD (5 days)	2.5	Mg/L		
		01-06-71	Secchi Disk	0.6	Ft.	5001	5001
		1245	BOD (5 days)	1.5	Mg/L		
		02-05-71	Secchi Disk	0.4	Ft.	5001	5001
		1255	BOD (5 days)	1.3	Mg/L		
			BOD (7 days)	1.8	Mg/L		
		03-05-71	Secchi Disk	0.4	Ft.	5001	5001
		1115	BOD (5 days)	1.7	Mg/L		
			BOD (7 days)	2.4	Mg/L		
		04-05-71	Secchi Disk	0.5	Ft.	5001	5001
		1305					
		05-17-71	Secchi Disk	0.7	Ft.	5001	5001
		1405	BOD (5 days)	2.8	Mg/L		
			Suspended Solids	112	Mg/L	5001	5006
	Volatile Suspended Solids	16	Mg/L				
06-18-71	Secchi Disk	0.4	Ft.	5001	5001		
1240	BOD (5 days)	3.1	Mg/L				
07-30-71	Secchi Disk	0.5	Ft.	5001	5001		
1230	BOD (5 days)	2.2	Mg/L				
08-27-71	Secchi Disk	0.7	Ft.	5001	5001		
1240	Suspended Solids	29	Mg/L	5001	5006		
	Volatile Suspended Solids	3	Mg/L				
09-27-71	Secchi Disk	0.7	Ft.	5001	5001		
1250	BOD (7 days)	2.6	Mg/L				

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents		Samp	Lab
EO S 811.0 204.8	CHADBOURNE SLOUGH AT CHADBOURNE ROAD NEAR SUISUN	10-07-70 0950	Secchi Disk	0.8 Ft.	5001	5001
			BOD (5 days)	1.5 Mg/L		
		11-06-70 1040	Secchi Disk	0.7 Ft.	5001	5001
			BOD (5 days)	2.0 Mg/L		
		12-09-70 1215	Suspended Solids	77 Mg/L	5001	5006
			Secchi Disk	0.6 Ft.		
		01-06-71 1110	BOD (5 days)	3.1 Mg/L	5001	5001
			Secchi Disk	0.6 Ft.		
		02-05-71 1120	BOD (5 days)	1.4 Mg/L	5001	5001
			Secchi Disk	0.4 Ft.		
		03-05-71 1015	BOD (5 days)	1.2 Mg/L	5001	5001
			BOD (7 days)	1.8 Mg/L		
		04-05-71 1155	Secchi Disk	0.5 Ft.	5001	5001
			BOD (5 days)	2.0 Mg/L		
		05-17-71 1250	BOD (7 days)	9.3 Mg/L	5001	5001
			Secchi Disk	0.4 Ft.		
		06-18-71 1135	BOD (5 days)	0.5 Ft.	5001	5001
			Secchi Disk	4.4 Mg/L		
		07-30-71 1120	Suspended Solids	187 Mg/L	5001	5006
			Volatile Suspended Solids	17 Mg/L		
08-27-71 1115	Secchi Disk	0.4 Ft.	5001	5001		
	BOD (5 days)	2.2 Mg/L				
09-27-71 1115	Secchi Disk	0.4 Ft.	5001	5001		
	BOD (5 days)	2.1 Mg/L				
08-27-71 1115	Secchi Disk	0.5 Ft.	5001	5001		
	Suspended Solids	103 Mg/L				
09-27-71 1115	Volatile Suspended Solids	10 Mg/L	5001	5006		
	Secchi Disk	0.8 Ft.				
EO S 811.2 158.5	MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD	10-07-70 1110	BOD (7 days)	2.0 Mg/L	5001	5001
			Secchi Disk	0.8 Ft.		
11-06-70 1300	BOD (5 days)	1.6 Mg/L	5001	5001		
	Secchi Disk	0.7 Ft.				
12-09-70 1345	BOD (5 days)	1.4 Mg/L	5001	5006		
	Suspended Solids	61 Mg/L				
01-06-71 1320	Secchi Disk	0.7 Ft.	5001	5001		
	BOD (5 days)	1.3 Mg/L				
02-05-71 1340	Secchi Disk	0.3 Ft.	5001	5001		
	BOD (5 days)	1.3 Mg/L				
03-05-71 1220	BOD (7 days)	1.8 Mg/L	5001	5001		
	Secchi Disk	0.4 Ft.				
04-05-71 1345	BOD (5 days)	1.7 Mg/L	5001	5001		
	BOD (7 days)	2.4 Mg/L				
05-17-71 1450	Secchi Disk	0.7 Ft.	5001	5001		
	BOD (5 days)	0.5 Ft.				
06-18-71 1320	BOD (5 days)	1.8 Mg/L	5001	5001		
	Suspended Solids	98 Mg/L				
07-30-71 1310	Volatile Suspended Solids	11 Mg/L	5001	5006		
	Secchi Disk	0.5 Ft.				
08-27-71 1330	BOD (5 days)	2.7 Mg/L	5001	5001		
	Secchi Disk	0.5 Ft.				
09-27-71 1320	BOD (5 days)	7.7 Mg/L	5001	5001		
	Secchi Disk	0.7 Ft.				
EO S 811.5 207.2	CORDELLA SLOUGH AT UPPER END NEAR CORDELLA	10-07-70 0910	Suspended Solids	67 Mg/L	5001	5006
			Volatile Suspended Solids	6 Mg/L		
04-05-71 1120	Secchi Disk	0.6 Ft.	5001	5001		
	BOD (7 days)	1.8 Mg/L				
05-17-71 1205	Secchi Disk	0.5 Ft.	5001	5001		
	BOD (5 days)	2.5 Mg/L				
06-18-71 1100	Suspended Solids	141 Mg/L	5001	5006		
	Volatile Suspended Solids	17 Mg/L				
07-30-71 1040	Secchi Disk	0.5 Ft.	5001	5001		
	BOD (5 days)	2.6 Mg/L				
			Secchi Disk	0.3 Ft.	5001	5001
			BOD (5 days)	2.3 Mg/L		

		04-05-7							
		1415							
		06-18-7							
		1345							
		07-30-7							
		1335							
		08-27-7							
		1400							
		09-27-7							
		1345							
E3	1250.00	NAPA RIVER NEAR NAPA	05-13-7						
			1100						
E3	2100.51	GREEN VALLEY CREEK AT CORDELLA	11-06-7						
			1005						
			12-09-7						
			1115						
			01-06-7						
			1040						
			02-05-7						
			1030						
			03-05-7						
			0950						
E4	4180.01	WALNUT CREEK AT HIGHWAY 4	06-09-7						
			0900						
E5	1400.00	ARROYO VALLE NEAR LIVERMORE	06-09-7						
			1000						
					Barium	0.0	Mg/L		
					Cadmium	0.00	Mg/L		
					Lead	0.00	Mg/L		
					Mercury, Total	0.2	Ug/L		
					Selenium	0.00	Mg/L		
E6	5100.00	SARATOGA CREEK AT SARATOGA	06-09-71						
			1120		Arsenic	0.00	Mg/L	5050	5050
					Barium	0.1	Mg/L		
					Cadmium	0.00	Mg/L		
					Lead	0.00	Mg/L		
					Mercury, Total	0.1	Ug/L		
					Selenium	0.00	Mg/L		
F8	2100.00	NAVARRO RIVER NEAR NAVARRO	05-05-71						
			--		Arsenic	0.00	Mg/L	5050	5050
					Barium	0.0	Mg/L		
					Cadmium	0.00	Mg/L		
					Lead	0.00	Mg/L		
					Mercury	0.0	Ug/L		
					Selenium	0.00	Mg/L		

TABLE D-3 (Cont.)

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Station Number	Station	Date Time	Constituents		Samp	Lab
F8 3100.00	NOYO RIVER NEAR FORT BRAGG	05-05-71 --	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.0 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury	0.0 Ug/L		
			Selenium	0.00 Mg/L		
F9 1100.00	RUSSIAN RIVER NEAR GUERNEVILLE	05-13-71 0800	Arsenic	0.00 Mg/L	5050	5050
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.0 Ug/L		
			Selenium	0.00 Mg/L		
F9 1765.00	RUSSIAN RIVER NEAR HOPLAND	05-20-71 1630	Arsenic	0.00 Mg/L	5000	5050
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.0 Ug/L		
			Selenium	0.00 Mg/L		
F9 1850.00	RUSSIAN RIVER NEAR UKLAH	05-20-71 1300	Arsenic	0.00 Mg/L	5000	5050
			Barium	0.1 Mg/L		
			Cadmium	0.00 Mg/L		
			Lead	0.00 Mg/L		
			Mercury, Total	0.0 Ug/L		
			Selenium	0.00 Mg/L		

TABLE D-4

NUTRIENT ANALYSIS OF SURFACE WATER

Lab and Sampler Agency Codes

5000	-	U. S. Geological Survey
5001	-	U. S. Bureau of Reclamation
5050	-	Department of Water Resources
5063	-	Santa Cruz County Health Department

Abbreviations

TIME	-	Pacific Standard Time on a 24-hour clock
G.H.	-	Instantaneous gage height in feet above an established datum
Q	-	Instantaneous discharge measured in cubic feet per second
TEMP	-	Water temperature in degrees Fahrenheit (F) or Celsius (C)
TURB	-	Jackson Turbidity Units measured with a Hellege Turbidimeter (E) or a Hach Nephelometer (A)
PH	-	Measure of acidity or alkalinity of water
EC	-	Electrical conductance in micromhos at 25° C
HCO3	-	Bicarbonate
CO3	-	Carbonate

Nitrogen Series as N

NO2	-	Unfiltered nitrite
NH3	-	Unfiltered ammonia
NO3	-	Unfiltered nitrate
ORG N	-	Organic nitrogen
DIS ORG N	-	Dissolved organic nitrogen
NH3 + ORG N	-	Ammonia plus organic nitrogen

Phosphorus Series as P

FIL A.H.P04	-	Filterable acid hydrolyzable phosphate
F P04	-	Filterable orthophosphate
U P04	-	Unfiltered orthophosphate
F TOT P	-	Filterable total phosphorus
U TOT P	-	Unfiltered total phosphorus

TABLE D-4 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. Q	TEMP TURB	FIELD LABORATORY PH	EC	LAR HCO3 CO3	NO2 NH3	NUTRIENT NO3 ORG N	CONSTITUENTS DIS ORG N	IN MILLIGRAMS NH3 + ORG N	PER FIL. A.M.P04	LITER F P04 U P04	F TOT P U TOT P	
		00	1100.00	BRANCIFORTE CREEK AT SANTA CRUZ										
3/15/71 1530	5063 5050		54 F 30E	7.5 7.7	273 262	71 0						0.08		
9/27/71 1230	5063 5050		57.0F 30E	8.0 8.1	485 469	186 0						0.17		
		00	1180.01	SAN LORENZO RIVER AT PARADISE PARK										
3/15/71 1200	5063 5050		52 F 35E	7.8 7.8	289 297	100 0						0.08		
9/27/71 1010	5063 5050		54.0F 3E	7.9 8.0	350 354	132 0						0.16		
		00	1220.01	ZAYANTE CREEK AT FELTON										
3/15/71 1110	5063 5050		51 F 550E	7.7 7.9	372 367	119 0						0.20		
9/27/71 0940	5063 5050		52.0F 2E	7.8 8.1	380 377	126 0						0.33		
		00	149A.01	SAN LORENZO RIVER AT ROULDER CREEK										
3/15/71 1000	5063 5050	2.22 3.5	47 F 80E	7.6 7.8	315 306	98 0						0.05		
9/27/71 0900	5063 5050		54.0F 15E	7.8 8.1	520 514	184 0						0.10		
		00	2020.00	APTOS CREEK BELOW VALENCIA CREEK AT APTOS										
3/15/71 1350	5063 5050	3.24 5.3	53 F 100E	8.1 8.3	555 550	208 0						0.13		
9/27/71 1350	5063 5050		57.0F 2E	8.3 8.4	670 863	306 5						0.21		
		00	3100.00	SOUUEL CREEK AT SOUUEL										
3/15/71 1430	5063 5050	2.86 35	58 F 12E	8.1 8.1	538 525	174 0						0.06		
9/27/71 1300	5063 5050	2.48	66.0F 1E	8.4 8.5	710 705	224 6						0.14		
		00	4010.01	SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT										
3/15/71 0900	5063 5050		48 F 15E	7.1 7.5	173 212	58 0						0.02		
9/27/71 0750	5063 5050		53.0F 2E	7.4 7.8	1150 611	114 0						0.07		
		EO B 735.0	215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)										
3/16/71 1020	5050 5050		53 F 30E	8.0	37000 32200		0.08	0.54 0.3		0.38	0.04	0.20	0.28	
4/13/71 0920	5050 5050		58 F 15E	8.1	36000 33700		0.02	0.43 0.2		0.22	0.00	0.18	0.23	
6/23/71 0810	5050 5050		65 F 6E	8.3	39000 36400		0.00	0.45 0.4		0.4	0.00	0.34	0.46	
7/08/71 0820	5050 5050		67 F 4E	8.2	40000 38100		0.00	0.12 0.2		0.2	0.04	0.26	0.31	
8/10/71 1030	5050 5050		70 F 8E	8.0	39500		0.00	0.26 0.3		0.3	0.06	0.30	0.36	
9/21/71 0915	5050 5050		70 F 9E	8.1	41900		0.00	0.36 0.1		0.1	0.01	0.39	0.46	
		EO B 736.2	211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE										
10/21/70 1000	5050 5050		61 F 6E	7.9	42000 43700		0.51	0.31 1.4		1.91	0.03	0.33	0.38	
11/17/70 0950	5050 5050		59 F 10E	8.2	41000 41800		0.06	0.39 0.2		0.26	0.00	0.26	0.28	
12/16/70 0815	5050 5050		52 F 25E	7.7	32000 33000		0.16	2.8 0.0		0.16	0.08	0.15	0.24	
1/28/71 0750	5050 5050		51 F 45E	8.0	30500 29100		0.08	0.43 0.0		0.08	0.01	0.13	0.14	
2/17/71 1330	5050 5050		54 F 20E	8.0	33000 29200		0.08	0.49 0.3		0.38	0.04	0.17	0.21	
5/11/71 0810	5050 5050		57.0F 40E	7.9	40000 31800		0.15	0.43 0.2		0.35	0.05	0.29	0.37	
		EO B 736.2	212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)										
6/23/71 0845	5050 5050		65 F 8E	8.4	39000 37400		0.00	0.05 0.2		0.2	0.00	0.17	0.24	
7/08/71 0915	5050 5050		65 F 3E	8.2	40000 38000		0.00	0.04 0.2		0.2	0.04	0.15	0.20	
8/10/71 1115	5050 5050		70 F 9E	8.1	40100		0.00	0.12 0.2		0.2	0.06	0.23	0.31	
9/21/71 1050	5050 5050		70 F 4E	8.3	41400		0.00	0.04 0.2		0.2	0.00	0.36	0.42	

TABLE D-4 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. O	TEMP TURB	FIELD LABORATORY PH EC	LAR HCO3 CO3	NO2 NH3	NUTRIENT NO3 NO3	CONSTITUENTS DIS ORG N	IN MILLIGRAMS NH3 + ORG N	PER LITER FIL. A.H.PO4	F U P04	F TOT P U TOT P
E0 R 748.1 222.4 SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND												
10/21/70 1030	5050 5050		59 F 4E	7.8 41000 41000			0.01	0.28 0.6	0.61	0.00	0.09	0.09
11/17/70 1100	5050 5050		58 F 8E	8.2 41000 40200			0.04	0.24 0.0	0.04	0.00	0.08	0.10
12/16/70 1030	5050 5050		53 F 12E	7.9 31000 32500			0.00	4.0 0.2	0.2	0.02	0.07	0.10
1/28/71 0730	5050 5050		50 F 20E	7.4 33000 30200			0.01	0.28 0.0	0.01	0.01	0.06	0.10
2/17/71 1350	5050 5050		52 F 7E	7.9 34000 30500			0.00	0.31 0.1	0.1	0.02	0.06	0.08
3/16/71 1005	5050 5050		52 F 7E	8.0 42000 37700			0.00	0.39 0.1	0.1	0.01	0.09	0.14
4/13/71 0910	5050 5050		55 F 7E	8.1 36000 33900			0.05	0.30 0.1	0.15	0.00	0.06	0.09
5/11/71 0812	5050 5050		60.5F 15E	8.0 35000 36800			0.09	0.31 0.0	0.09	0.08	0.10	0.18
E0 R 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND												
6/23/71 0700	5050 5050		59 F 9E	8.2 40500 39200			0.01	0.36 0.2	0.21	0.00	0.10	0.15
7/08/71 0640	5050 5050		61 F 7E	7.7 43000 39800			0.00	0.34 0.0	0.0	0.03	0.11	0.15
8/10/71 0900	5050 5050		64 F 6E	7.9 41500			0.00	0.25 0.1	0.1	0.04	0.11	0.15
9/21/71 0715	5050 5050		63 F 3E	7.9 40100			0.00	0.21 0.3	0.3	0.02	0.09	0.14
E0 R 757.7 226.2 SAN PABLO STRAIT WEST OF THE BROTHERS												
10/21/70 1120	5050 5050		60 F 3E	7.9 35000 35500			0.01	0.29 0.5	0.51	0.00	0.08	0.08
11/17/70 1145	5050 5050		59 F 6E	8.2 38000 35300			0.04	0.29 0.1	0.14	0.00	0.08	0.09
12/16/70 1220	5050 5050		51 F 20E	7.5 13000 13700			0.05	3.0 0.3	0.35	0.03	0.06	0.10
1/28/71 1000	5050 5050		50 F 25E	7.5 28000 25600			0.02	0.33 0.1	0.12	0.02	0.04	0.06
2/17/71 1450	5050 5050		52 F 15E	7.8 21000 18500			0.05	0.33 0.5	0.55	0.02	0.06	0.08
3/16/71 1050	5050 5050		53 F 10E	7.8 15000 22600			0.01	0.40 0.3	0.31	0.02	0.09	0.11
4/13/71 1010	5050 5050		56 F 25E	7.8 21500 20100			0.06	0.23 0.0	0.06	0.03	0.05	0.08
5/11/71 1000	5050 5050		59.0F 30E	7.8 20800 25200			0.12	0.23 0.0	0.12	0.02	0.07	0.09
E0 R 801.8 222.3 SAN PABLO BAY NEAR PINOLE POINT												
3/24/71 1130	5001 5000		12 C 14A	7.7 38100			5.10	0.3 0.47	5.57		0.26	0.31
4/21/71 1055	5001 5000		13 C 13A	7.8 27300	105 0		2.60	0.3 0.22	2.82		0.18	0.28
5/19/71 1130	5001 5000		16 C 8A	7.9 25500	61 0		3.80	0.3 0.24	0.19	4.04	0.05	0.13
6/16/71 0930	5001 5000		17 C 6A	7.5 27800	108 0		2.00	0.2 0.26	0.17	2.26	0.07	0.12
7/15/71 0950	5001 5001		18 C 4A	7.8 32500	113 0		0.09	0.3			0.13	0.15
8/17/71 1430	5001 5001		19 C 10A	8.1 36200	118 0		0.09	0.3			0.15	0.20
9/15/71 1310	5001 5001		21 C 6A	7.8 34700	74 0		0.06	0.2			0.12	0.19
E0 R 802.3 207.1 SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ												
10/07/70 1045	5001 5000		17 C 28A	7.7 15100			0.00	0.09 0.34	0.24	0.34	0.09	0.19
11/20/70 1035	5001 5000		15 C 22A	7.6 16500			0.08	0.16 0.69	0.65	0.77	0.09	0.13
3/04/71 0825	5001 5000		10 C 28A	6.7 14800	96 0		1.20	0.20 0.18	0.12	1.38	0.09	0.13
4/06/71 1130	5001 5000		15 C 30A	7.7 7350	79 0		0.0	0.20 0.30	0.10	0.3	0.01	0.17
5/04/71 1105	5001 5000		14 C 32A	7.5 14400	79 0		1.70	0.18 0.23	0.19	1.93	0.09	0.10
6/02/71 1105	5001 5000		17 C 19A	7.8 7240	79 0		0.25	0.08 0.22	0.20	0.47	0.08	0.12
6/30/71 0925	5001 5000		20 C 18A	7.5 10200	78 0			0.20			0.08	0.14

TABLE D-4 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. Q	TEMP TURB	FIELD LABORATORY PH	EC	LAB HCO3 CO3	NO2 NH3	NUTRIENT NO3 ORG N	CONSTITUENTS DIS ORG N	NH3 + ORG N	FIL. A.H.P04	F P04 U P04	F TOT P U TOT P	
E0 B R02.3 207.1				SUISUN RAY OFF BULLS HEAD POINT AT MARTINEZ				CONTINUED						
8/03/71 1345	5001 5001		21 C 16A	8.0		80 0		0.16				0.09	0.18	
					17800		0.05		0.01					
8/31/71 1245	5001 5001		21 C 20A	7.9		69 0		0.15				0.09	0.19	
					11900		0.05							
9/28/71 1050	5001 5001		18 C 22A	7.7		90 0		0.15				0.06	0.06	
					11300		0.06							
E0 B R02.8 155.0				SACRAMENTO RIVER AT CHIPPS ISLAND										
10/07/70 1200	5001 5000		17 C 55A	7.6				0.09 0.41		0.09	0.41	0.09	0.27	
					1550		0.00		0.09					
11/20/70 1130	5001 5000		14 C 28A	7.2				0.29 0.71		0.48	0.73	0.08	0.14	
					361		0.02							
3/04/71 1000	5001 5000		10 C 39A	6.8		79 0		0.30 0.42		0.38	0.6	0.06	0.12	
					663		0.18							
4/06/71 1245	5001 5000		15 C 70A	7.5		64 0		0.10 0.25		0.05	0.25	0.02	0.18	
					140		0.0							
5/04/71 1305	5001 5000		15 C 27A	7.5		62 0		0.0 0.18		0.18	0.28	0.06	0.12	
					179		0.10							
6/02/71 1235	5001 5000		18 C 15A	7.6		70 0		0.05 0.22		0.24	0.22	0.04	0.09	
					172		0.0							
6/30/71 1105	5001 5000		21 C 22A	7.5		60 0		0.03		0.04		0.04	0.09	
					251		0.0							
8/03/71 1520	5001 5001		22 C 37A	8.0		64 0		0.01		0.0		0.04	0.15	
					2550		0.01							
8/31/71 1430	5001 5001		21 C 27A	8.0		67 0		0.06				0.04	0.15	
					553		0.01							
9/28/71 1230	5001 5001		18 C 26A	7.7		56 7		0.07				0.03	0.08	
					227		0.0							
E0 B R03.5.217.0				SAN PABLO BAY NEAR RODEO										
3/24/71 1200	5001 5000		14 C 30A	7.6				0.3 0.22			1.62	0.10	0.08	
					28000		1.40							
4/21/71 1120	5001 5000		13 C 55A	7.7		95 0		0.2 0.28			0.33	0.10	0.21	
					20700		0.05							
5/19/71 1200	5001 5000		16 C 10A	7.8		95 0		0.1 0.34		0.17	3.74	0.07	0.10	
					20900		3.40							
6/16/71 1005	5001 5000		21 C 13A	7.7		99 0		0.2 0.25		0.18	0.52	0.05	0.12	
					19500		0.27							
7/15/71 1025	5001 5001		18 C 14A	7.7		107 0		0.2				0.11	0.18	
					27900		0.09							
8/17/71 1500	5001 5001		21 C 22A	8.2		102 0		0.2				0.11	0.17	
					27200		0.08							
9/15/71 1340	5001 5001		22 C 10A	7.6		98 0		0.2				0.09	0.16	
					26700		0.06							
E0 B R04.4 156.2				HONKER HAY NEAR WHEELER POINT										
3/04/71 0935	5001 5000		10 C 45A	6.8		78 0		0.30 0.24		0.14	0.37	0.02	0.17	
					609		0.13							
4/06/71 1215	5001 5000		15 C 70A	7.5		63 0		0.0 0.20		0.12	0.23	0.01	0.17	
					140		0.03							
5/04/71 1240	5001 5000		15 C 37A	7.5		64 0		0.03 0.27		0.21	0.29	0.04	0.10	
					174		0.02							
6/02/71 1210	5001 5000		18 C 24A	7.8		70 0		0.08 0.29		0.41	0.29	0.04	0.10	
					175		0.0							
6/30/71 1035	5001 5000		21 C 34A	7.5		60 0		0.03		0.01		0.04	0.11	
					332		0.01							
8/03/71 1455	5001 5001		22 C 55A	7.9		64 0		0.02		0.01		0.03	0.16	
					3160		0.01							
8/31/71 1400	5001 5001		21 C 37A	8.0		67 0		0.06				0.04	0.16	
					655		0.01							
9/28/71 1200	5001 5001		18 C 33A	7.7		92 0		0.07				0.04	0.04	
					198		0.0							
E0 B R05.3 226.3				SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER										
3/24/71 1100	5001 5000		13 C 22A	7.4				0.4 0.20			3.1	0.19	0.34	
					28000		2.90							
4/21/71 1015	5001 5000		12 C 40A	7.6		101 0		0.2 0.28			2.58	0.15	0.21	
					24600		2.30							
5/19/71 1050	5001 5000		17 C 16A	7.9		141 0		0.1 0.21		0.18	2.41	0.09	0.10	
					23100		2.20							
6/16/71 0840	5001 5000		19 C 8A	7.5		106 0		0.2 0.38		0.17	2.48	0.06	0.12	
					24000		2.10							
7/15/71 0915	5001 5001		19 C 10A	8.1		106 0		0.1				0.18	0.22	
					26700		0.05							
8/17/71 1335	5001 5001		20 C 70A	8.1		111 0		0.5				0.21	0.35	
					30300		0.05							

TABLE D-4 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. Q	TEMP TURB	FIELD LABORATORY PH	LAB HCO3 EC	NH3	NUTRIENT NO3 ORG N	CONSTITUENTS IN MILLIGRAMS PER LITER				F TOT P
								DIS ORG N	NH3 + ORG N	FIL. A.H.P04	F P04 U P04	F TOT P U TOT P
E0 R 805.3 226.3 SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER CONTINUED												
9/15/71 1240	5001 5001		25 C 14A	7.9	26800	141 0	0.03	0.1			0.11	0.21
E0 R 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH												
10/07/70 1000	5001 5000		16 C 140A	7.6	5470		0.00	0.05 0.63	0.24	0.63	0.08	0.36
11/20/70 1000	5001 5000		14 C 70A	7.4	3090		0.03	0.18 0.89	0.48	0.92	0.08	0.19
3/04/71 0755	5001 5000		9 C 70A	6.8	2740	82 0	0.32	0.30 0.18	0.15	0.5	0.07	0.15
4/06/71 1030	5001 5000		15 C 80A	7.5	145	62 0	0.02	0.0 0.25	0.08	0.27	0.02	0.18
5/04/71 1015	5001 5000		14 C 75A	7.3	758	63 0	0.0	0.04 0.31	0.18	0.31	0.05	0.20
6/02/71 1020	5001 5000		17 C 40A	7.9	372	63 0	0.0	0.03 0.24	0.27	0.24	0.05	0.16
6/30/71 0835	5001 5000		20 C 60A	7.7	1550	64 0	0.01	0.04			0.01	0.11
8/03/71 1300	5001 5001		21 C 60A	7.8	7560	64 0	0.01	0.03	0.03		0.04	0.17
8/31/71 1200	5001 5001		21 C 47A	8.0	2510	81 0	0.01	0.06			0.05	0.20
9/28/71 0950	5001 5001		18 C 34A	7.5	338	72 0	0.0	0.08			0.04	0.10
E0 S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS												
11/06/70 0920	5001 5000		14 C 90A	7.1	5100	102 0	0.43	0.20 0.73		1.16	0.04	0.06
5/17/71 1115	5001 5000		18 C 100A	7.4	1450	100 0	0.09	0.17 0.50		0.59	0.02	0.38
8/27/71 0900	5001 5001		21 C 50A	7.7	4240	84 0	0.05	0.10			0.03	0.16
E0 S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND												
11/06/70 1215	5001 5000		15 C 75A	7.3	3670	141 0	0.28	0.50 0.92		1.2	0.10	0.14
5/17/71 1405	5001 5000		19 C 75A	7.9	1860	127 0	0.04	0.83 0.49		0.53	0.12	0.40
8/27/71 1240	5001 5001		23 C 50A	7.9	4390	102 0	0.07	0.10			0.04	0.21
E0 S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD NEAR SUISUN												
11/06/70 1040	5001 5000		15 C 70A	7.2	4180	129 0	0.43	0.30 0.92		1.35	0.08	0.11
5/17/71 1250	5001 5000		19 C 80A	7.7	1400	165 0	0.08	0.61 0.77		0.85	0.03	0.32
8/27/71 1115	5001 5001		21 C 40A	7.7	4040	113 0	0.12	0.21			0.02	0.16
E0 S 811.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD												
11/06/70 1300	5001 5000		15 C 65A	7.1	5920	103 0	0.32	0.20 1.20		1.52	0.02	0.06
5/17/71 1450	5001 5000		19 C 65A	7.8	683	73 0	0.07	0.08 0.36		0.43	0.02	0.20
8/27/71 1330	5001 5001		23 C 40A	7.9	3610	80 0	0.03	0.10			0.03	0.15
E0 S 811.5 207.2 CORDELIA SLOUGH AT UPPER END NEAR CORDELIA												
5/17/71 1205	5001 5000		19 C 75A	7.7	1190	200 0	0.14	0.33 0.42		0.56	0.04	0.29
8/27/71 1015	5001 5001		20 C 80A	8.0	606	176 0	0.03	0.15			0.07	0.20
E0 S 813.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD												
11/06/70 1330	5001 5000		15 C 45A	7.6	530	172 0	0.0	0.10 0.50		0.5	0.27	0.27
8/27/71 1400	5001 5001		21 C 45A	8.0	3430	168 0	0.08	0.40			0.25	0.48
E3 1100.50 NAPA RIVER AT DUTTONS LANDING												
4/13/71 1130	5050 5050		60 F	8.2	4500		0.00	0.38 0.0		0.0	0.11	0.23
E3 2100.51 GREEN VALLEY CREEK AT CORDELIA												
11/06/70 1005	5001 5000		14 C 50A	7.7	296	133 0	0.0	0.30 0.76		0.76	0.05	0.07

TABLE D-5

PESTICIDES IN SURFACE WATER AND SEDIMENT

Pesticides

- BHC - Benzene hexachloride
- DDE - Dichloro diphenyl ethane
- DDT - Dichloro diphenyl trichlorethane
- PCB - Polychlorinated biphenol

When two pesticides are reported together with a slash mark separating them (ppDDE/Dieldrin, Simazine/Atrazine, etc.), the reported concentration is an undifferentiated total of the two. Either of the two pesticides could make up the entire total.

Lab and Sampler Agency Codes

- 5001 - U. S. Bureau of Reclamation
- 5007 - U. S. Environmental Protection Agency Laboratory at Alameda
- 5050 - Department of Water Resources

TABLE D-5 (Cont.)

PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab
D1 1006.30	WATSONVILLE SLOUGH AT SAN ANDRES ROAD	05-05-71 1000	Malathion 290 Simazine/Atrazine 100 PCB 560 Unknown as Parathion 15		5050	5050
D1 1075.30	PAJARO RIVER AT THURWACHTER ROAD	05-05-71 1030	Simazine/Atrazine 95 Unknown #1 as DDT 5 Unknown #2 as DDT 5 Diazinon 25		5050	5050
D1 1250.00	PAJARO RIVER AT CHITTENDEN	02-17-71 1100	Unknown as DDT 5 No organic phosphorus pesticide detected		5050	5050
		05-05-71 1130	Simazine/Atrazine 60 Unknown as DDT 35 No organic phosphorus pesticide detected		5050	5050
D1 1371.50	UVAS CREEK NEAR MORGAN HILL BELOW UVAS DAM	05-05-71 1400	No chlorinated pesticide detected No organic phosphorus pesticide detected		5050	5050
D1 1475.50	PLANEL AGRICULTURAL DRAIN ABOVE LLAGAS CREEK	05-05-71 1245	Simazine/Atrazine 45 Complex chlorinated compounds as DDT 50 No organic phosphorus pesticide detected		5050	5050
D1 2450.00	SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL	05-05-71 0900	Unknown as DDT 2 No organic phosphorus pesticide detected		5050	5050
D1 3220.20	ELKHORN SLOUGH AT BRIDGE NEAR HALL	05-05-71 0915	Simazine/Atrazine 115 Complex chlorinated compounds as DDT 55 No organic phosphorus pesticide detected		5050	5050
D2 1006.30	TEMBLADERO SLOUGH AT NASHUA ROAD	05-05-71 1450	Unknown #1 as DDT 740 Unknown #2 as DDT 240 Complex chlorinated compounds as DDT 4600 Thimet 880 Diazinon 350 Parathion 900		5050	5050
D2 1006.60	TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN	05-05-71 1300	Simazine/Atrazine 450 Diazinon 20 Methyl Parathion 85 Parathion 25		5050	5050
D2 1009.20	SALINAS RECLAMATION CANAL BELOW ALISAL SLOUGH	02-17-71 1015	Simazine/Atrazine 1180 Unknown #1 as DDT 620 Unknown #2 as DDT 290 Diazinon 250 Methyl Parathion 160		5050	5050
		05-05-71 1230	Unknown #1 as DDT 880 Unknown #2 as DDT 340 Complex chlorinated compound as DDT 6900 Thimet 660 Diazinon 210 Methyl Parathion 130 Parathion 860		5050	5050
D2 1020.70	SALINAS RECLAMATION CANAL AT AIRPORT WAY	05-05-71 1030	Unknown #1 as DDT 610 Unknown #2 as DDT 5300 Unknown #3 as DDT 2200 Unknown #4 as DDT 2000 Unknown #5 as DDT 3100 Unknown #6 as DDT 2600 DDT 3100 Thimet 710 Diazinon 700 Methyl Parathion 1300 Parathion 3600		5050	5050
D2 1030.30	BLANCO DRAIN AT PUMP LIFT	02-17-71 1005	Simazine/Atrazine 190 Unknown #1 as DDT 30 Unknown #2 as DDT 95 Unknown #3 as DDT 60 Complex chlorinated compounds as DDT 425 Methyl parathion 120 Parathion 600		5050	5050
		05-05-71 1200	Unknown #1 as DDT 2100 Unknown #2 as DDT 1200 Unknown #3 as DDT 200 Parathion 2810		5050	5050

TABLE D-5 (Cont.)

PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab
D2 1110.50	SALINAS RIVER AT TWIN BRIDGES	05-05-71 0800	Unknown #1 as DDT 30 Unknown #2 as DDT 145 Unknown #3 as DDT 30 Phorate (Thimet) 45 Parathion 75		5050	5050
D2 1325.10	SALINAS RIVER NEAR GONZALES	02-17-71 0840	Unknown as DDT 5 No organic phosphorus pesticides detected		5050	5050
		05-05-71 1230	Unknown #1 as DDT 4 Unknown #2 as DDT 3 No organic phosphorus pesticides detected		5050	5050
D2 1450.00	ARROYO SECO NEAR SOLEDAD	05-05-71 1140	No chlorinated pesticides detected No organic phosphorus pesticides detected		5050	5050
D2 1850.00	SALINAS RIVER AT BRADLEY	05-05-71 1000	No chlorinated pesticides detected No organic phosphorus pesticides detected		5050	5050
D4 1010.50	CARMEL RIVER AT HIGHWAY 1	05-05-71 1430	No chlorinated pesticides detected No organic phosphorus pesticides detected		5050	5050
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	03-16-71 1020	Unknown as DDT 55		5050	5050
		07-08-71 0820	Unknown as DDT 5		5050	5050
		09-21-71 0915	Unknown as DDT 9 Complex chlorinated compounds as DDT 10		5050	5050
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	11-17-70 0950	Complex chlorinated compounds as DDT 20		5050	5050
		01-28-71 075C	No chlorinated pesticides detected		5050	5050
		05-11-71 0810	Simazine/Atrazine 18 Unknown as DDT 10		5050	5050
EO B 736.2 212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	07-08-71 0915	Unknown as DDT 5		5050	5050
		09-21-71 1050	Unknown as DDT 15 Complex chlorinated compounds as DDT 10		5050	5050
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	11-17-70 1100	No chlorinated pesticides detected		5050	5050
		01-28-71 0730	No chlorinated pesticides detected		5050	5050
		03-16-71 1005	Unknown as DDT 2		5050	5050
		05-11-71 0812	No chlorinated pesticides detected		5050	5050
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	07-08-71 0640	Unknown as DDT 5		5050	5050
		09-21-71 0715	Unknown as DDT 15 Complex chlorinated compounds as DDT 15		5050	5050
EO B 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	11-17-70 1145	No chlorinated pesticides detected		5050	5050
		01-28-71 1000	Unknown as DDT 5		5050	5050
		03-16-71 1050	Unknown as DDT 3		5050	5050
		05-11-71 1000	No chlorinated pesticides detected		5050	5050
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	10-07-70 1045	Aldrin <3 BHC 3 DDE <3 DDT <10 Dieldrin <3 Toxaphene <100 Heptachlor <3 Heptachlor Epoxide <3		5001	5007

TABLE D-5 (Cont.)

PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lob
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ (Continued)	11-20-70 1035	Aldrin	↕	5001	5007
			BHC	↕		
			DDE	↕		
			DDT	<10		
			Dieldrin	↕		
			Toxaphene	<100		
			Heptachlor	↕		
			Heptachlor Epoxide	↕		
		05-04-71 1105	Aldrin	↕		
			BHC	↕		
			DDE	↕		
			DDT	<10		
			Dieldrin	↕		
			Toxaphene	<100		
			Heptachlor	↕		
			Heptachlor Epoxide	↕		
		06-02-71 1105	Aldrin	↕		
			BHC	↕		
			DDE	↕		
			DDT	<10		
Dieldrin	↕					
Toxaphene	<100					
Heptachlor	↕					
Heptachlor Epoxide	↕					
07-15-71 1115	Aldrin	↕				
	BHC	↕				
	DDE	↕				
	DDT	<10				
	Dieldrin	↕				
	Toxaphene	<100				
	Heptachlor	↕				
	Heptachlor Epoxide	↕				
08-31-71 1245	Aldrin	↕				
	BHC	↕				
	DDE	↕				
	DDT	<10				
	Dieldrin	↕				
	Toxaphene	<100				
	Heptachlor	↕				
	Heptachlor Epoxide	↕				
EO B 804.4 156.2	HONKER BAY NEAR WHEELER POINT	06-02-71 1210	Aldrin	↕	5001	5007
			BHC	↕		
			DDE	↕		
			DDT	<10		
			Dieldrin	↕		
			Toxaphene	<100		
			Heptachlor	↕		
			Heptachlor Epoxide	↕		

TABLE D-6

DAILY MAXIMUM AND MINIMUM AVERAGE WATER TEMPERATURES

D2 1006.60 TEMPLADERO SLOUGH AT MERRITT LAKE DRAIN
(October 1970 through September 1971)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	NR	NR	61	54	58	56	66	64	68	67	72	59	88	67	91	70	76	68	NR	NR	86	74		
2	NR	NR	60	59	57	55	65	62	70	67	63	57	90	68	84	70	82	68	NR	NR	84	74		
3	NR	NR	60	58	55	53	62	60	68	64	71	59	87	68	82	72	79	69	NR	NR	86	74		
4	NR	NR	61	59	56	54	60	58	67	63	76	59	88	73	81	71	80	71	NR	NR	82	74		
5	NR	NR	62	61	59	55	NR	NR	68	64	74	59	86	71	80	73	85	72	NR	NR	97	75		
6	NR	NR	63	62	59	57	NR	NR	69	65	74	59	74	71	80	67	80	72	NR	NR	82	75		
7	NR	NR	65	62	60	58	NR	NR	70	67	74	59	85	67	82	69	78	71	NR	NR	76	74		
8	63	59	66	62	60	59	NR	NR	70	68	69	62	87	65	87	73	87	69	NR	NR	81	76		
9	67	55	66	61	59	56	NR	NR	71	66	71	62	87	67	94	70	80	69	NR	NR	87	79		
10	68	58	66	63	56	54	NR	NR	72	67	75	60	82	72	82	71	80	72	NR	NR	RE	RE		
11	66	62	65	62	55	53	NR	NR	75	68	78	67	85	66	78	74	87	70	NR	NR				
12	62	60	64	61	54	52	65	63	77	70	76	65	97	67	82	71	80	70	NR	NR				
13	63	59	62	53	NR	NR	65	62	75	68	75	65	80	70	87	74	83	70	89	82				
14	63	60	56	54	NR	NR	66	64	73	68	70	65	85	70	90	71	92	73	82	72				
15	64	60	55	52	NR	NR	67	64	77	68	80	67	78	74	82	73	96	72	76	74				
16	70	59	55	53	NR	NR	68	64	68	63	84	68	83	71	85	70	95	72	83	75				
17	67	58	54	49	NR	NR	70	67	67	64	90	65	76	70	91	70	89	69	89	79				
18	64	57	57	52	NR	NR	74	69	72	61	90	65	77	68	91	71	90	71	92	78				
19	66	60	54	52	NR	NR	74	72	72	66	92	65	74	70	84	71	92	75	86	77				
20	61	56	54	49	NR	NR	74	71	70	63	85	65	78	70	80	70	93	77	97	80				
21	63	57	58	52	NR	NR	72	69	72	62	84	68	81	65	86	70	95	79	86	74				
22	60	58	57	53	NR	NR	68	66	72	63	89	68	87	65	78	70	86	75	81	73				
23	NR	NR	54	52	NR	NR	67	64	75	60	78	71	87	71	83	72	89	72	82	74				
24	NR	NR	54	50	NR	NR	67	65	73	64	87	72	77	63	81	73	89	71	77	72				
25	NR	NR	60	52	64	64	68	65	72	61	76	72	86	65	91	71	94	71	78	71				
26	NR	NR	59	55	65	63	68	64	67	57	83	72	83	70	89	75	89	76	80	72				
27	NR	NR	55	52	65	64	69	65	69	58	79	72	87	68	75	70	95	75	85	72				
28	NR	NR	57	54	66	64	70	66	72	59	80	72	78	72	83	70	90	72	80	72				
29	60	56	57	55	67	64	70	66	84	72	92	67	80	70	88	70	88	70	82	72				
30	55	54	57	56	67	64	69	66	85	65	85	66	85	66	77	71	74	71	89	70				
31	55	51			67	64	70	66	90	66					83	68			91	73				
Max	NR		66		NR		NR		77		92		97		94		96		NR					
Min	NR		49		NR		NR		57		57		63		67		68		NR					
Avg	NR		57		NR		NR		68		71		75		76		78		NR					

NR - No record.

RE - Record ended.

D2 1325.10 SALINAS RIVER NEAR CONZALES
(October 1970 through September 1971)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	NR	NR	NR	NR	53	49	48	45	NR	NR					NR	NR	62	53	NR	NR	NR	NR	NR	NR
2	69	57	NR	NR	52	49	NR	NR	54	50					NR	NR	70	55	NR	NR	NR	NR	NR	NR
3	68	57	NR	NR	49	44	NR	NR	53	45					NR	NR	66	53	NR	NR	77	55	NR	NR
4	69	57	58	56	52	45	NR	NR	52	44					NR	NR	70	54	NR	NR	79	53	NR	NR
5	66	57	65	56	56	51	NR	NR	53	45					NR	NR	63	57	NR	NR	77	57	NR	NR
6	66	56	58	55	57	50	NR	NR	56	49					NR	NR	67	58	NR	NR	79	56	NR	NR
7	65	51	60	56	57	52	NR	NR	56	51					NR	NR	68	56	NR	NR	80	59	NR	NR
8	65	50	61	57	54	49	NR	NR	55	51					NR	NR	73	55	NR	NR	82	59	NR	NR
9	65	50	60	56	54	46	NR	NR	56	47					NR	NR	65	54	NR	NR	81	60	NR	NR
10	66	53	60	58	52	42	NR	NR	58	48	N		N		NR	NR	74	58	NR	NR	80	65	NR	NR
11	67	56	NR	NR	52	42	NR	NR	62	50	O		O		71	58	72	57	NR	NR	79	62	NR	NR
12	63	57	NR	NR	51	41	NR	NR	62	52					73	53	72	56	NR	NR	78	62	NR	NR
13	62	56	NR	NR	47	39	NR	NR	61	52					70	53	70	56	79	64	78	61	NR	NR
14	60	55	NR	NR	50	42	NR	NR	58	52					75	50	75	58	77	59	77	59	82	70
15	63	55	NR	NR	51	41	NR	NR	60	47	R		R		73	50	79	59	77	57	77	59	80	62
16	63	54	NR	NR	54	46	NR	NR	50	45	E		E		75	49	77	60	77	58	78	58	76	63
17	61	53	NR	NR	53	43	NR	NR	54	44					80	49	80	59	79	59	77	59	75	60
18	57	51	NR	NR	44	40	NR	NR	59	48	C		C		71	50	79	57	81	61	75	58	75	60
19	61	52	NR	NR	52	43	NR	NR	56	39					73	53	77	60	80	61	76	60	75	56
20	59	47	NR	NR	45	41	NR	NR	56	42	O		O		70	53	79	59	79	56	77	59	72	59
21	57	52	NR	NR	46	42	NR	NR	57	44	R		R		68	49	79	59	NR	NR	79	60	72	59
22	61	53	NR	NR	47	43	NR	NR	54	43					74	52	72	61	NR	NR	79	62	72	57
23	63	57	NR	NR	47	43	NR	NR	60	42	D		D		72	55	72	59	NR	NR	78	59	69	59
24	60	54	NR	NR	46	40	NR	NR	59	43					72	57	69	62	NR	NR	NR	NR	68	56
25	64	51	NR	NR	46	40	NR	NR	54	36					69	54	70	60	NR	NR	NR	NR	69	57
26	58	49	NR	NR	46	44	NR	NR	53	37					67	56	72	63	NR	NR	NR	NR	67	54
27	NR	NR	NR	NR	47	44	NR	NR	50	40					58	52	72	63	NR	NR	NR	NR	67	52
28	NR	NR	NR	NR	47	43	NR	NR	NR	NR					71	54	67	58	NR	NR	NR	NR	66	52
29	NR	NR	53	50	46	43	NR	NR	NR	NR					61	56	69	59	NR	NR	NR	NR	65	52
30	NR	NR	52	47	48	43	NR	NR	NR	NR					66	57	NR	NR	NR	NR	NR	NR	66	55
31	NR	NR			49	45	NR	NR	NR	NR					NR	NR			NR	NR	NR	NR		
Max	NR		NR		57		NR		NR		NR		NR		NR		NR		NR		NR		NR	
Min	NR		NR		39		NR		NR		NR		NR		NR		NR		NR		NR		NR	
Avg	NR		NR		47		NR		NR		NR		NR		NR		NR		NR		NR		NR	

NR - No record.

TABLE D-7

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

DO 1030.30 BLANCO DRAIN AT PUMP LIFT
(October 1970 through September 1971)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	3,220	2,200	2,645	2,850	1,100	1,975	2,980	2,700	2,840	3,660	3,500	3,590	4,100	3,350	3,610	3,200	2,100	2,540
2	3,700	2,330	2,878	3,790	1,600	2,695	3,000	1,840	2,425	3,650	2,920	3,220	4,100	3,410	4,150	3,200	1,120	2,310
3	3,500	2,100	2,645	3,510	2,430	3,020	3,230	2,500	2,865	3,490	3,020	3,290	4,100	2,480	3,580	2,900	1,670	2,080
4	3,500	2,500	3,000	3,320	2,550	2,905	3,360	2,840	3,100	3,670	3,500	3,580	4,000	2,450	2,980	3,300	1,400	2,150
5	3,510	3,200	3,355	3,600	3,020	3,205	3,520	3,150	3,335	3,790	3,620	3,670	2,800	1,950	2,370	3,100	1,450	2,090
6	3,910	3,500	3,705	3,690	2,810	3,250	3,700	3,550	3,625	3,830	3,100	3,600	2,000	1,950	2,300	3,000	1,600	2,120
7	3,800	2,890	3,345	3,620	2,910	3,265	3,800	3,700	3,750	3,910	3,050	3,690	4,110	2,790	3,810	2,300	1,800	1,980
8	3,490	2,800	3,145	3,310	2,760	3,100	3,820	3,750	3,790	3,910	3,410	3,780	4,310	3,920	4,130	2,180	1,640	1,880
9	3,490	2,350	2,920	3,670	3,210	3,340	3,900	3,750	3,825	4,000	3,150	3,640	4,200	3,900	4,130	2,500	1,650	2,100
10	3,650	2,450	3,050	3,910	3,230	3,570	3,990	3,710	3,845	4,000	3,150	3,660	4,280	3,700	4,150	3,200	1,800	2,290
11	3,330	2,140	2,735	3,850	3,090	3,470	3,950	3,250	3,600	4,000	3,180	3,830	4,220	3,950	4,120	2,000	1,410	1,670
12	3,400	2,600	2,875	3,810	3,320	3,550	3,980	3,410	3,705	3,500	2,200	2,990	4,190	2,450	3,350	2,000	1,500	1,830
13	3,230	2,400	2,815	3,800	3,000	3,400	3,900	3,700	3,545	2,690	1,750	2,160	4,180	3,250	3,670	2,700	1,600	1,920
14	3,300	2,000	2,650	3,790	3,020	3,405	4,000	3,130	3,565	3,100	2,380	2,830	4,150	3,760	4,040	3,100	2,680	2,890
15	3,600	1,900	2,750	3,750	3,230	3,500	4,020	3,240	3,630	3,590	3,130	3,420	4,180	3,700	4,080	2,900	2,100	2,440
16	3,900	2,800	3,350	3,820	3,110	3,465	3,820	2,850	3,225	3,790	3,600	3,690	4,150	3,850	4,060	3,000	2,300	2,690
17	3,190	2,700	2,945	3,820	3,120	3,460	3,500	1,740	2,620	3,820	3,730	3,790	4,180	4,020	4,080	2,800	1,700	2,170
18	3,290	2,810	3,050	3,900	3,100	3,500	2,850	1,600	2,225	3,810	3,150	3,670	4,210	3,880	4,100	3,500	2,000	2,920
19	3,510	2,750	3,130	3,720	3,110	3,370	2,720	1,720	2,220	3,900	3,110	3,670	4,000	2,750	3,730	3,650	2,700	3,260
20	3,520	2,830	3,175	3,390	2,710	3,045	3,300	2,230	2,765	3,900	3,460	3,770	4,220	3,200	3,890	3,500	1,950	2,720
21	3,420	2,900	3,160	3,400	2,550	2,890	1,750	1,070	1,410	3,910	3,130	3,710	4,160	3,680	3,850	2,350	1,700	1,930
22	3,510	2,550	3,030	3,190	2,100	2,645	2,090	1,450	1,770	3,910	3,720	3,770	4,060	3,400	3,880	2,350	1,650	1,870
23	3,210	2,280	2,745	3,670	2,500	2,987	2,690	2,140	2,415	3,950	3,230	3,890	4,320	3,580	4,000	3,400	1,800	2,320
24	3,500	2,600	2,940	3,700	2,980	3,340	3,220	2,680	2,950	3,950	3,370	3,870	4,000	3,500	3,830	3,500	2,250	2,740
25	3,560	2,690	3,115	3,520	2,590	2,860	3,500	3,280	3,390	4,010	3,200	3,730	4,030	3,200	3,580	3,500	2,450	2,900
26	3,560	2,330	2,945	3,090	2,520	2,720	3,620	3,230	3,425	3,950	3,250	3,690	4,050	3,050	3,750	3,200	2,250	2,660
27	3,560	2,330	2,895	3,410	2,700	3,055	3,160	2,200	2,680	3,830	3,000	3,510	4,000	3,140	3,700	3,300	2,250	2,870
28	3,250	2,490	3,355	3,390	1,650	2,520	2,800	2,000	2,400	3,930	3,150	3,590	3,310	2,600	2,920	3,450	2,450	3,230
29	3,700	3,010	3,300	2,100	1,600	1,835	3,110	2,780	2,945	4,010	3,480	3,840	3,350	1,950	2,510	3,350	1,950	2,510
30	3,490	3,010	3,250	2,750	2,100	2,425	3,300	2,920	3,110	4,030	3,340	3,830	2,280	1,580	1,970	2,280	1,580	1,970
31	3,280	1,440	2,360	3,500	3,300	3,400	3,500	3,300	3,400	4,010	3,280	3,750	2,500	1,700	1,980	2,500	1,700	1,980

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	1,950	1,600	1,770	2,400	1,700	2,020	2,900	2,300	2,654	2,200	1,850	1,950	NR	NR	NR	NR	NR	NR
2	2,600	1,760	2,380	2,400	1,800	2,040	3,300	2,700	2,912	2,450	1,800	2,120	NR	NR	NR	NR	NR	NR
3	2,650	2,400	2,500	3,000	2,100	2,510	2,700	2,200	2,387	2,850	2,250	2,540	NR	NR	NR	NR	NR	NR
4	2,880	2,000	2,500	2,700	1,900	2,240	3,000	2,200	2,483	2,900	2,000	2,370	NR	NR	NR	NR	NR	NR
5	3,100	1,800	2,440	2,400	1,600	1,920	3,300	2,100	2,890	3,100	2,100	2,620	NR	NR	NR	NR	NR	NR
6	3,320	2,600	2,840	2,700	1,800	2,310	2,900	2,100	2,300	3,150	2,200	2,580	NR	NR	NR	NR	NR	NR
7	2,900	2,200	2,510	2,300	1,800	2,120	2,700	1,800	2,160	2,800	2,000	2,330	NR	NR	NR	NR	NR	NR
8	2,100	1,600	1,930	2,700	2,000	2,330	3,100	1,610	2,468	3,400	2,300	2,770	NR	NR	NR	NR	NR	NR
9	2,300	1,750	1,960	2,400	1,800	2,190	3,500	2,250	3,047	2,800	2,300	2,460	NR	NR	NR	NR	NR	NR
10	1,900	1,500	1,650	2,800	2,100	2,280	3,050	2,050	2,606	2,800	2,450	2,630	NR	NR	NR	NR	NR	NR
11	2,600	2,150	2,400	2,400	2,200	2,440	2,600	2,130	2,398	3,000	1,900	2,380	NR	NR	NR	NR	NR	NR
12	2,180	1,720	1,910	3,300	1,700	2,560	2,300	1,900	2,017	2,900	1,950	2,280	NR	NR	NR	NR	NR	NR
13	2,650	1,800	2,360	2,900	1,800	2,154	2,200	1,600	1,903	2,600	2,100	2,310	NR	NR	NR	NR	NR	NR
14	2,900	1,500	2,280	3,000	1,750	2,180	2,550	1,600	2,174	2,500	1,950	2,270	NR	NR	NR	NR	NR	NR
15	3,100	2,500	2,810	3,100	2,200	2,800	3,700	2,400	3,010	3,100	2,300	2,670	NR	NR	NR	NR	NR	NR
16	3,500	2,300	2,870	3,500	1,900	2,510	2,650	1,950	2,330	2,500	2,200	2,300	NR	NR	NR	NR	NR	NR
17	3,500	2,200	3,450	3,200	2,400	2,750	2,500	1,800	2,180	2,700	1,700	2,220	NR	NR	NR	NR	NR	NR
18	3,900	3,500	3,800	3,200	2,200	2,790	2,100	1,650	1,896	1,800	1,500	1,540	NR	NR	NR	NR	NR	NR
19	4,100	2,200	3,080	3,660	2,500	3,230	2,650	1,500	1,944	2,150	1,800	2,080	NR	NR	NR	NR	NR	NR
20	3,500	1,650	2,600	3,300	2,100	2,550	3,250	1,600	2,654	2,600	1,900	2,220	NR	NR	NR	NR	NR	NR
21	2,600	1,500	2,020	2,400	1,800	2,120	3,700	2,100	2,580	2,500	1,800	2,040	NR	NR	NR	NR	NR	NR
22	2,350	1,500	1,820	2,500	1,900	2,180	2,700	2,150	2,380	2,500	1,950	2,240	NR	NR	NR	3,250	1,900	2,397
23	3,000	2,000	2,340	2,500	1,900	2,090	3,500	2,200	2,660	2,250	1,950	2,050	NR	NR	NR	3,250	1,800	2,375
24	2,510	1,850	2,180	3,100	2,100	2,370	3,000	1,850	2,300	2,450	1,950	2,170	NR	NR	NR	3,100	2,100	2,725
25	2,250	1,700	1,930	3,200	2,400	2,880	3,000	1,900	2,400	3,000	2,000	2,680	NR	NR	NR	3,150	1,850	2,377
26	2,750	1,600	1,910	2,600	1,900	2,210	2,200	1,700	1,860	2,900	1,900	2,180	NR	NR	NR	3,300	1,700	2,175
27	2,200	1,500	1,630	2,800	1,600	2,220	2,400	1,850	2,040	2,400	2,100	2,260	NR	NR	NR	2,700	1,400	1,810
28	1,800	1,400	1,580	3,000	1,700	2,112	2,680	1,700	2,250	No record pump removed	NR	NR	NR	NR	NR	3,200	1,600	2,645
29	2,100	1,800	1,900	3,300	2,400	2,750	2,300	1,800	2,200	No record pump removed	NR	NR	NR	NR	NR	2,700	1,450	2,045
30	2,400	1,550	1,820	3,400	2,800	3,125	2,700	1,650	1,970	No record pump removed	NR	NR	NR	NR	NR	2,800	1,900	2,314
31				3,000	2,300	2,800				No record pump removed	NR	NR	NR	NR	NR			

NR - No record.

TABLE D-7 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

DO 1180.01 SAN LORENZO RIVER AT PARADISE PARK
(October 1970 through September 1971)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	325	300	325	345	330	335	240	205	220	285	280	285	345	340	342	345	340	345
2	325	325	325	330	330	330	214	160	185	290	285	287	345	345	345	350	345	345
3	330	320	325	335	310	330	255	215	240	290	285	285	345	340	342	350	345	348
4	325	315	320	315	250	285	255	155	188	290	285	285	340	340	340	355	345	350
5	325	320	325	345	295	330	255	200	235	285	280	282	345	340	342	355	345	350
6	330	325	327	345	225	300	275	255	265	285	280	282	345	345	345	350	345	348
7	330	325	328	345	275	320	290	275	285	285	283	284	345	345	345	355	345	350
8	330	325	329	385	345	370	290	250	275	288	285	287	345	340	342	355	350	355
9	325	320	325	385	375	380	285	275	280	290	285	290	340	340	340	360	350	355
10	325	320	322	390	375	385	295	285	290	290	290	290	345	340	342	360	350	355
11	325	320	320	NR	NR	NR	305	295	300	295	285	280	345	345	345	360	350	355
12	325	320	322	NR	NR	NR	305	305	305	NR	NR	NR	345	345	345	355	230	305
13	325	320	320	NR	NR	NR	315	310	312	NR	NR	NR	350	345	345	NR	NR	NR
14	325	320	320	NR	NR	NR	318	312	315	NR	NR	NR	350	340	345	NR	NR	NR
15	325	320	325	NR	NR	NR	320	310	315	NR	NR	NR	350	345	348	NR	NR	NR
16	325	320	323	NR	NR	NR	310	230	250	NR	NR	NR	350	340	345	320	300	310
17	325	315	320	NR	NR	NR	250	230	240	NR	NR	NR	345	340	343	NR	NR	NR
18	325	315	320	NR	NR	NR	250	165	200	NR	NR	NR	345	340	345	NR	NR	NR
19	325	320	322	NR	NR	NR	195	165	180	NR	NR	NR	340	315	335	NR	NR	NR
20	325	305	315	355	315	345	230	145	200	NR	NR	NR	340	335	338	330	330	330
21	335	310	330	340	340	340	190	125	160	NR	NR	NR	340	335	335	335	330	333
22	340	315	325	345	335	340	215	190	205	NR	NR	NR	345	335	340	340	335	335
23	360	330	340	345	315	335	200	185	190	NR	NR	NR	350	345	347	340	335	338
24	360	345	350	350	320	340	235	185	205	NR	NR	NR	350	345	350	345	340	340
25	345	340	340	330	285	315	245	235	240	NR	NR	NR	355	350	350	345	320	335
26	340	330	338	340	230	305	260	230	240	335	335	335	350	350	350	325	250	280
27	335	330	335	345	305	335	265	240	257	340	335	337	350	335	342	290	255	275
28	335	330	333	320	195	220	275	260	270	340	335	340	350	345	345	320	290	310
29	335	325	332	225	190	205	275	240	257	340	335	340	350	345	340	325	315	320
30	330	325	329	250	230	240	270	250	260	340	340	340	350	345	340	325	320	320
31	335	325	330				280	270	275	340	340	340				325	320	325

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	325	320	320	385	380	385	360	355	355	360	355	360	350	345	347	350	340	345
2	320	320	320	380	365	375	360	355	355	365	360	362	355	345	348	350	340	345
3	325	320	322	370	365	370	360	355	360	365	355	360	355	350	352	350	345	348
4	325	320	325	370	365	365	360	360	360	360	350	355	355	345	350	355	345	350
5	325	325	325	370	365	370	365	360	360	355	350	353	350	340	345	355	345	348
6	330	320	325	370	365	370	360	355	358	355	350	352	350	340	345	355	345	350
7	325	320	323	375	365	370	360	355	358	355	350	355	350	340	345	350	340	345
8	330	325	327	365	360	365	365	360	362	355	350	355	350	345	347	NR	NR	NR
9	330	325	328	360	345	355	365	360	362	355	350	355	350	345	347	NR	NR	NR
10	325	315	320	345	340	345	365	360	360	355	345	355	350	345	347	NR	NR	NR
11	325	315	320	360	345	355	370	360	365	355	345	350	355	340	350	NR	NR	NR
12	330	325	325	365	355	360	365	360	365	355	350	352	350	340	345	NR	NR	NR
13	330	285	325	NR	NR	NR	370	360	365	360	350	355	350	340	345	NR	NR	NR
14	295	225	280	NR	NR	NR	370	360	365	360	350	355	350	340	345	360	328	350
15	315	295	310	NR	NR	NR	365	360	365	355	350	355	350	340	345	360	352	355
16	315	310	313	NR	NR	NR	370	360	365	360	350	355	350	340	345	359	345	353
17	315	305	310	NR	NR	NR	370	360	365	360	350	357	350	340	345	358	348	353
18	315	305	310	NR	NR	NR	370	360	365	360	355	358	350	340	345	355	345	352
19	315	315	315	355	345	350	370	360	365	360	350	355	350	345	348	350	345	348
20	315	315	315	350	350	350	365	355	360	355	350	352	350	345	348	349	341	345
21	315	315	315	350	350	350	360	350	355	355	350	353	350	345	348	345	345	345
22	315	315	315	350	350	350	360	350	355	355	345	350	350	345	347	345	345	345
23	320	315	318	355	350	352	360	355	358	355	345	350	350	340	345	350	345	348
24	320	315	318	355	350	353	365	355	360	355	345	350	350	340	343	350	345	350
25	320	315	320	355	340	345	365	360	365	355	345	350	350	340	345	355	340	345
26	320	320	320	355	350	350	365	355	362	350	345	348	350	340	345	355	335	345
27	360	320	340	355	355	355	360	355	358	350	345	348	350	345	347	345	340	340
28	370	360	365	360	355	358	360	355	358	355	345	350	350	345	348	345	340	343
29	385	370	380	360	355	358	360	355	360	355	345	350	350	345	347	340	330	337
30	385	370	375	360	355	358	360	355	358	355	345	350	350	340	345	350	330	340
31				360	355	357				355	345	348	350	340	345			

NR - No record

TABLE D-7 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

D1 1250.00 PAJARO RIVER NEAR CHITTENDEN
(October 1970 through September 1971)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10		N			N			N			N			N			N	
11		O			O			O			O			O			O	
12																		
13																		
14																		
15		R			R			R			R			R			R	
16		E			E			E			E			E			E	
17																		
18		C			C			C			C			C			C	
19																		
20		O			O			O			O			O			O	
21		R			R			R			R			R			R	
22																		
23		D			D			D			D			D			D	
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1										NR	NR	NR	2,220	2,060	2,127	1,590	1,570	1,578
2										NR	NR	NR	2,340	1,280	1,927	1,610	1,590	1,598
3										NR	NR	NR	2,130	1,800	1,966	1,610	1,580	1,595
4										NR	NR	NR	1,850	1,500	1,712	1,600	1,580	1,585
5										NR	NR	NR	1,700	1,580	1,632	1,590	1,580	1,589
6										NR	NR	NR	1,820	1,700	1,757	1,610	1,590	1,602
7										NR	NR	NR	1,850	1,750	1,812	1,610	1,600	1,607
8										NR	NR	NR	1,800	1,720	1,772	1,590	1,580	1,581
9										NR	NR	NR	1,710	1,570	1,647	1,590	1,580	1,582
10		N			N			N		NR	NR	NR	1,610	1,540	1,572	1,580	1,550	1,561
11		O			O			O		NR	NR	NR	1,590	1,520	1,553	1,550	1,540	1,545
12										NR	NR	NR	1,520	1,500	1,508	1,590	1,520	1,530
13										NR	NR	NR	1,520	1,500	1,510	1,530	1,530	1,530
14										NR	NR	NR	1,530	1,480	1,500	1,550	1,520	1,529
15		R			R			R		NR	NR	NR	1,480	1,450	1,466	1,590	1,540	1,555
16		E			E			E		NR	NR	NR	1,450	1,420	1,431	1,630	1,510	1,562
17										NR	NR	NR	1,450	1,420	1,427	1,660	1,580	1,644
18		C			C			C		NR	NR	NR	1,440	1,390	1,407	1,660	1,640	1,643
19										NR	NR	NR	1,460	1,440	1,444	1,750	1,700	1,717
20		O			O			O		NR	NR	NR	1,450	1,440	1,443	1,770	1,740	1,757
21		R			R			R		NR	NR	NR	1,450	1,440	1,445	1,750	1,720	1,742
22										1,575	1,460	1,511	1,490	1,450	1,462	1,760	1,730	1,734
23										1,530	1,450	1,501	1,570	1,500	1,525	1,830	1,800	1,807
24		D			D			D		1,650	1,540	1,590	1,620	1,580	1,592	1,850	1,840	1,841
25										1,680	1,600	1,643	1,590	1,560	1,576	1,880	1,850	1,869
26										1,620	1,600	1,606	1,650	1,580	1,605	1,880	1,880	1,880
27										1,650	1,610	1,633	1,670	1,650	1,660	1,920	1,880	1,891
28										1,630	1,590	1,610	1,660	1,640	1,649	1,870	1,820	1,843
29										1,650	1,620	1,631	1,640	1,620	1,627	1,800	1,760	1,786
30										1,710	1,650	1,683	1,620	1,600	1,610	1,730	1,720	1,727
31										2,030	1,710	1,771	1,610	1,600	1,602			

NR - No record.

TABLE D-7 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

D2 1006.60 TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN
(October 1970 through September 1971)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	2,290	1,895	2,079	1,776	1,591	1,696	1,840	1,650	1,731	2,300	2,200	2,247	2,360	2,065	2,194
2	NR	NR	NR	2,230	1,710	2,023	1,856	1,500	1,722	2,150	1,575	1,798	2,450	2,210	2,298	2,500	2,040	2,225
3	NR	NR	NR	2,300	1,800	2,043	1,460	1,195	1,271	1,885	1,560	1,709	2,450	2,220	2,343	2,850	1,500	2,292
4	NR	NR	NR	2,170	1,700	1,937	1,860	1,260	1,669	1,805	1,675	1,727	2,280	2,100	2,174	2,700	2,310	2,452
5	NR	NR	NR	2,070	1,850	1,965	2,120	1,800	1,940	NR	NR	NR	2,210	2,100	2,141	2,710	2,390	2,511
6	NR	NR	NR	2,170	2,080	2,121	2,320	1,960	2,098	NR	NR	NR	2,250	2,095	2,157	2,620	2,100	2,317
7	NR	NR	NR	2,290	1,420	1,984	2,480	2,050	2,152	NR	NR	NR	2,350	2,110	2,238	2,700	2,120	2,387
8	2,750	2,340	2,450	1,390	1,150	1,267	2,500	2,090	2,258	NR	NR	NR	2,400	2,200	2,278	2,810	2,200	2,465
9	3,200	1,820	2,916	1,150	1,105	1,116	2,330	2,110	2,214	NR	NR	NR	2,305	2,190	2,237	2,700	2,150	2,357
10	2,330	1,760	2,011	1,250	1,120	1,160	2,360	2,200	2,296	NR	NR	NR	2,530	2,415	2,466	2,600	1,995	2,317
11	2,800	2,390	2,634	1,448	1,273	1,363	2,450	2,200	2,277	NR	NR	NR	2,505	2,440	2,469	2,450	1,900	2,150
12	2,920	2,800	2,860	1,598	1,373	1,481	2,330	2,180	2,282	1,515	725	935	2,600	2,350	2,472	2,300	1,655	2,024
13	3,260	2,890	3,075	1,748	1,393	1,581	NR	NR	NR	920	720	811	2,790	2,505	2,613	1,800	1,007	1,398
14	3,430	3,210	3,296	1,673	1,373	1,518	NR	NR	NR	1,275	860	1,018	2,730	2,315	2,529	1,005	831	1,039
15	3,420	3,350	3,385	1,773	1,423	1,585	NR	NR	NR	1,655	1,060	1,416	2,715	1,655	2,362	1,025	870	1,013
16	3,510	3,190	3,396	1,843	1,493	1,649	NR	NR	NR	1,700	1,645	1,672	2,560	2,260	2,423	1,720	1,300	1,545
17	3,570	3,480	3,516	2,023	1,523	1,737	NR	NR	NR	1,840	1,680	1,788	3,200	2,505	2,800	1,850	1,500	1,661
18	3,650	3,500	3,575	2,046	1,746	1,896	NR	NR	NR	2,175	1,485	1,736	3,350	2,780	3,002	2,100	1,600	1,809
19	3,750	3,520	3,619	2,000	1,746	1,866	NR	NR	NR	1,740	1,460	1,621	2,864	2,310	2,636	2,160	1,700	1,892
20	3,900	3,710	3,780	2,070	1,696	1,856	NR	NR	NR	2,060	1,700	1,867	2,440	2,000	2,131	2,200	1,850	2,048
21	3,800	3,620	3,710	2,113	1,275	1,763	NR	NR	NR	2,080	1,640	1,801	2,170	1,914	2,034	2,400	1,900	2,065
22	3,640	3,210	3,488	1,603	1,350	1,481	NR	NR	NR	1,990	1,710	1,850	2,980	1,890	2,339	2,300	1,850	2,076
23	NR	NR	NR	1,890	1,530	1,709	NR	NR	NR	1,945	1,775	1,860	2,805	1,870	2,366	2,500	1,900	2,172
24	NR	NR	NR	1,975	1,250	1,484	NR	NR	NR	1,930	1,665	1,748	2,240	2,025	2,121	2,430	2,000	2,175
25	NR	NR	NR	1,960	1,400	1,656	2,050	1,910	2,015	1,880	1,680	1,780	2,230	2,120	2,166	2,600	1,850	2,158
26	NR	NR	NR	1,526	1,176	1,356	2,850	1,945	2,117	1,950	1,650	1,820	2,310	2,102	2,220	2,800	1,120	1,670
27	NR	NR	NR	1,296	1,146	1,166	2,150	960	1,486	1,900	1,640	1,721	2,322	2,090	2,206	1,010	750	906
28	NR	NR	NR	1,626	1,166	1,424	1,380	1,150	1,265	1,740	1,550	1,645	2,280	2,080	2,192	820	680	744
29	1,850	1,700	1,775	1,696	1,456	1,607	1,745	1,410	1,595	1,860	1,695	1,740	2,280	2,080	2,192	1,010	720	888
30	2,310	1,875	2,092	1,591	1,466	1,505	1,760	1,730	1,742	1,940	1,740	1,804	2,280	2,080	2,192	1,300	910	1,172
31	2,330	1,890	2,000				2,240	1,580	1,782	2,240	1,975	2,107				1,625	1,400	1,530

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	2,175	1,450	1,774	2,000	1,720	1,813	2,550	2,050	2,296	NR	NR	NR	3,600	3,500	3,568	2,580	2,200	2,370
2	2,200	1,750	1,885	1,950	1,750	1,839	2,600	2,150	2,370	NR	NR	NR	3,500	3,100	3,264	2,780	2,380	2,531
3	2,100	1,800	2,020	2,200	1,900	2,021	2,300	2,000	2,152	NR	NR	NR	3,700	3,500	3,566	2,820	2,120	2,362
4	2,250	2,000	2,288	2,175	1,750	1,998	2,400	2,050	2,192	NR	NR	NR	3,750	3,250	3,539	2,460	1,960	2,197
5	2,320	1,950	2,113	2,000	1,800	1,841	2,350	2,100	2,216	NR	NR	NR	3,450	2,800	3,222	2,660	2,000	2,320
6	2,400	1,850	2,140	2,100	1,710	1,866	2,250	2,150	2,204	NR	NR	NR	3,150	2,760	2,955	2,680	1,800	2,088
7	2,100	1,850	1,945	2,000	1,700	1,838	2,500	2,150	2,323	NR	NR	NR	3,200	2,760	2,983	2,170	1,950	2,048
8	1,900	1,600	1,760	1,900	1,700	1,810	2,500	2,300	2,358	NR	NR	NR	3,200	2,700	2,871	2,250	1,760	2,048
9	1,900	1,525	1,695	2,000	1,800	1,916	2,380	2,100	2,280	NR	NR	NR	3,060	2,860	2,890	2,660	2,310	2,438
10	2,000	1,625	1,814	2,100	1,800	1,933	2,600	2,200	2,350	NR	NR	NR	3,100	2,900	2,957	2,700	1,810	2,150
11	1,950	1,675	1,832	2,200	1,650	2,026	2,400	2,150	2,260	NR	NR	NR	3,300	2,900	3,085	2,310	1,800	2,014
12	1,900	1,550	1,780	2,300	1,850	2,047	2,300	2,050	2,170	NR	NR	NR	3,700	3,300	3,450	2,610	2,160	2,379
13	2,175	1,700	1,903	2,200	1,850	2,010	2,500	2,050	2,255	2,900	2,800	2,830	3,700	3,200	3,364	2,630	1,650	1,936
14	1,900	1,300	1,563	2,000	1,850	1,962	2,500	2,200	2,301	3,000	2,550	2,797	3,560	3,200	3,337	2,160	1,530	1,750
15	1,200	825	963	2,400	1,850	2,118	2,300	2,220	2,255	3,500	2,800	3,087	4,000	3,600	3,775	1,900	1,600	1,685
16	950	800	842	2,260	1,900	2,070	2,750	2,250	2,533	3,050	2,640	2,803	4,140	4,020	4,078	2,100	1,500	1,856
17	1,000	900	940	2,050	1,950	2,012	2,780	2,500	2,594	3,000	2,500	2,710	4,250	2,850	3,626	2,100	1,200	1,602
18	1,030	970	997	2,100	1,900	2,041	2,650	2,400	2,504	2,900	2,100	2,610	3,450	3,100	3,285	1,400	1,250	1,312
19	1,050	800	902	2,200	1,900	2,090	2,550	2,350	2,465	2,670	2,200	2,512	3,550	2,950	3,269	1,450	1,200	1,422
20	1,200	800	935	2,280	1,900	2,115	2,480	2,250	2,386	2,800	2,070	2,334	3,550	2,850	3,027	1,800	1,050	1,493
21	1,350	1,050	1,172	2,200	2,000	2,140	2,800	2,300	2,452	2,500	1,950	2,089	3,400	2,600	3,145	1,850	1,050	1,543
22	1,710	1,250	1,458	2,300	1,900	2,118	2,500	1,450	2,289	3,000	2,500	2,822	2,900	2,400	2,735	1,900	1,220	1,598
23	1,700	1,250	1,404	2,300	2,050	2,122	2,350	1,200	2,087	2,850	2,600	2,737	3,080	2,150	2,540	1,950	1,050	1,570
24	1,550	1,350	1,433	2,000	1,800	1,935	2,300	1,100	2,016	3,150	2,750	2,931	2,850	2,280	2,520	2,000	1,050	1,526
25	1,625	1,450	1,552	2,080	1,800	1,935	2,500	1,060	1,834	3,050	2,500	2,841	2,940	2,060	2,481	1,950	1,250	1,630
26	2,000	1,750	1,868	2,100	1,900	1,991	2,500	1,000	2,024	3,150	3,000	3,072	2,900	2,100	2,586	1,800	1,300	1,540
27	1,900	1,800	1,878	2,000	1,850	1,967	2,700	2,500	2,612	3,150	2,600	2,939	2,840	2,200	2,517	1,850	1,250	1,545
28	2,020	1,800	1,837	2,300	2,000	2,100	2,750	940	2,238	2,800	2,300	2,527	2,700	2,140	2,343	1,950	1,200	1,560
29	2,050	1,600	1,860	2,200	2,000	2,092	2,550	1,050	2,133	2,600	2,300	2,499	2,900	2,600	2,717	1,800	1,050	1,397
30	2,175	1,800	1,920	2,200	2,050	2,144	2,500	2,400	2,450	3,600	2,500	3,072	2,940	2,140	2,407	1,180	950	1,074
31				2,300	2,100	2,198				3,550	3,500	3,522	2,330	2,100	2,232			

NR - No record.

TABLE D-7 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

D2 1016.50 SALINAS RECLAMATION CANAL AT ALISAL S.T.P.
(October 1970 through September 1971)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	975	560	772	807	662	743	1,803	833	1,675	1,630	1,575	1,595	1,470	820	1,049
2	NR	NR	NR	935	560	745	807	85	306	1,108	713	938	1,600	1,140	1,515	1,610	1,020	1,299
3	NR	NR	NR	880	700	791	1,510	345	698	1,148	1,073	1,103	1,620	1,160	1,407	1,340	740	1,145
4	NR	NR	NR	1,040	700	847	1,550	100	768	1,403	1,083	1,239	1,490	940	1,214	1,590	720	1,123
5	NR	NR	NR	1,640	820	1,129	1,460	1,030	1,255	1,463	1,343	1,410	1,175	800	968	1,120	760	910
6	NR	NR	NR	2,950	360	1,175	1,520	1,345	1,429	1,620	1,458	1,540	1,155	995	1,063	1,540	700	902
7	NR	NR	NR	NR	NR	NR	1,610	1,050	1,352	1,740	1,470	1,553	1,060	1,000	1,043	840	700	758
8	NR	NR	NR	1,000	500	627	1,428	1,138	1,270	1,790	1,470	1,605	2,000	905	1,308	2,170	780	921
9	NR	NR	NR	1,275	540	872	1,228	1,138	1,203	1,770	1,470	1,651	1,597	810	1,132	2,140	860	1,061
10	NR	NR	NR	2,000	920	1,188	1,168	988	1,065	1,795	1,350	1,554	1,120	940	1,015	1,410	860	1,106
11	NR	NR	NR	1,930	936	1,151	1,038	963	900	1,450	510	1,137	1,327	995	1,122	1,350	870	1,130
12	NR	NR	NR	1,951	976	1,222	1,048	998	1,025	985	295	603	1,317	1,047	1,199	1,290	360	866
13	NR	NR	NR	1,726	1,116	1,247	1,178	248	773	1,000	250	592	1,297	947	1,182	1,090	420	747
14	NR	NR	NR	1,351	1,026	1,230	1,196	556	924	980	450	782	1,017	847	954	1,110	410	906
15	NR	NR	NR	1,456	946	1,185	1,566	306	1,229	1,380	830	928	1,157	987	1,066	1,260	540	978
16	NR	NR	NR	1,446	1,046	1,178	521	221	373	905	785	828	1,237	877	1,040	1,460	1,250	1,399
17	NR	NR	NR	1,706	986	1,171	696	221	364	905	765	818	1,244	1,014	1,099	1,500	1,430	1,464
18	NR	NR	NR	1,396	666	1,142	616	226	403	990	820	889	1,154	1,094	1,119	1,530	1,480	1,500
19	NR	NR	NR	1,902	812	1,183	706	581	652	980	880	929	1,024	214	572	1,530	1,460	1,504
20	NR	NR	NR	1,232	792	1,099	884	329	768	1,375	840	1,133	934	754	801	1,590	1,540	1,565
21	2,100	1,025	1,337	1,657	1,022	1,222	499	329	424	1,370	1,190	1,252	1,394	614	789	1,560	1,280	1,452
22	2,750	600	1,212	1,322	942	1,004	549	464	498	1,260	1,180	1,220	1,194	724	903	1,440	1,220	1,350
23	3,310	1,150	1,505	1,407	892	1,042	684	559	636	1,360	1,255	1,305	1,424	944	1,046	1,430	1,270	1,361
24	1,510	890	1,106	1,552	732	1,038	699	659	681	1,480	1,360	1,410	1,160	950	1,046	1,470	1,220	1,335
25	950	695	799	1,122	142	454	709	684	693	1,440	1,385	1,420	1,040	920	991	1,540	1,160	1,387
26	1,440	800	1,124	952	162	623	852	497	719	1,430	1,330	1,392	1,310	920	1,010	1,490	430	1,126
27	1,540	980	1,214	1,427	697	1,020	747	567	676	1,355	1,200	1,298	1,160	480	864	2,640	940	1,313
28	1,490	900	1,090	1,102	77	264	1,067	737	903	1,310	1,240	1,275	1,080	810	897	1,320	820	1,097
29	1,075	740	928	617	157	267	1,192	832	1,043	1,430	1,305	1,379				1,550	970	1,332
30	1,220	940	1,039	652	317	513	1,472	1,162	1,279	1,510	1,380	1,435				1,840	1,390	1,472
31	1,040	870	937				1,732	1,482	1,557	1,570	1,500	1,538				1,400	1,230	1,330

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	1,440	1,340	1,386	1,220	1,090	1,135	1,270	1,130	1,197	1,450	1,190	1,257	1,390	1,030	1,092	1,200	940	1,113
2	1,390	1,290	1,352	1,170	730	925	1,360	1,210	1,263	1,230	1,140	1,193	1,750	1,120	1,262	1,150	940	1,006
3	1,340	1,250	1,300	1,180	860	1,050	1,340	1,260	1,290	1,260	1,190	1,232	1,600	1,060	1,248	1,180	1,050	1,100
4	1,390	870	1,080	1,350	1,180	1,295	1,290	1,240	1,258	1,250	1,120	1,217	1,460	980	1,145	1,050	800	881
5	1,490	940	1,087	1,500	1,330	1,409	1,350	1,250	1,291	1,200	1,100	1,133	1,390	1,120	1,241	1,130	830	887
6	1,130	330	919	1,430	1,240	1,319	1,300	1,100	1,172	1,520	1,120	1,231	1,440	1,200	1,438	940	860	908
7	1,440	610	1,129	1,320	1,180	1,252	1,340	1,090	1,212	1,470	1,100	1,334	1,380	1,110	1,202	1,250	920	1,027
8	3,240	1,060	1,452	1,350	1,240	1,310	1,340	1,120	1,234	1,470	1,110	1,310	1,240	900	988	1,050	820	931
9	3,640	1,070	1,497	1,350	1,260	1,292	1,630	920	1,164	1,580	1,250	1,420	1,170	920	1,188	1,050	960	991
10	1,240	780	883	1,320	1,230	1,277	1,340	880	1,115	1,530	1,320	1,407	1,210	1,050	1,123	1,300	940	1,047
11	920	720	805	1,300	1,080	1,234	1,330	1,040	1,233	1,360	1,220	1,300	1,500	940	1,117	1,300	1,000	1,186
12	1,840	800	1,180	1,400	700	1,041	1,270	920	1,096	1,610	1,240	1,446	2,100	950	1,237	1,400	920	1,123
13	1,940	250	1,105	1,700	820	1,139	1,150	820	911	1,580	1,360	1,455	1,400	940	1,139	1,300	960	1,164
14	1,140	210	740	1,600	640	988	1,390	1,000	1,194	2,340	1,270	1,490	1,060	900	994	1,220	930	1,132
15	2,000	870	1,280	1,500	620	785	1,370	1,160	1,281	1,820	1,260	1,432	1,030	750	923	1,430	780	1,009
16	2,000	760	1,262	820	590	629	1,270	940	1,127	1,530	1,120	1,341	1,250	940	1,116	1,350	870	1,129
17	1,420	220	785	1,360	650	888	1,250	880	1,083	1,530	1,190	1,276	1,250	900	1,084	1,330	1,190	1,272
18	1,600	590	824	1,040	640	880	1,210	1,070	1,089	1,360	1,270	1,320	1,150	860	955	1,430	1,230	1,274
19	2,300	730	1,267	1,040	950	998	1,270	990	1,139	1,670	1,330	1,402	1,110	900	1,012	1,270	1,150	1,205
20	2,050	1,040	1,392	1,040	900	984	1,220	1,020	1,077	1,540	1,230	1,420	1,150	780	985	1,520	1,270	1,389
21	2,400	1,080	1,457	1,040	960	1,001	1,520	1,060	1,237	1,630	1,410	1,505	1,300	820	967	1,520	1,270	1,422
22	1,710	1,120	1,345	1,140	1,060	1,091	1,470	1,210	1,332	1,750	1,290	1,380	1,050	800	948	1,520	1,240	1,330
23	1,480	1,120	1,353	1,100	860	946	1,310	1,050	1,209	1,350	1,210	1,295	1,400	940	1,183	1,470	1,230	1,370
24	1,600	1,050	1,348	1,080	850	950	1,370	1,180	1,238	1,470	1,100	1,215	1,600	1,080	1,225	1,540	1,260	1,380
25	1,500	710	828	1,190	1,080	1,143	1,480	960	1,185	1,100	960	1,011	1,350	950	1,117	1,480	1,290	1,410
26	1,130	790	1,002	1,150	1,040	1,103	1,360	1,060	1,205	1,870	1,010	1,278	1,150	970	1,051	1,300	1,210	1,252
27	1,090	790	1,005	1,160	1,070	1,107	1,400	1,030	1,117	1,380	1,080	1,252	1,380	830	1,005	1,560	1,260	1,419
28	1,230	880	1,015	1,210	1,040	1,117	1,320	980	1,171	1,460	1,170	1,264	1,250	960	1,112	1,580	1,330	1,484
29	1,210	930	1,091	1,350	1,270	1,297	1,770	1,240	1,289	1,350	1,050	1,122	1,150	760	889	1,710	1,440	1,520
30	1,290	930	1,128	1,260	1,210	1,227	1,310	1,220	1,269	1,510	1,130	1,313	1,250	900	1,095	1,560	1,400	1,484
31				1,210	1,160	1,192				1,300	980	1,088	1,200	1,050	1,112			

NR - No record.

TABLE D-7 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

D2 1325.10 SALINAS RIVER NEAR GONZALES
(October 1970 through September 1971)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	NR	NR	NR	660	310	485	370	370	370	990	950	970			
2	360	300	330	NR	NR	NR	630	170	400	NR	NR	NR	1,070	942	1,006			
3	245	225	235	NR	NR	NR	480	200	340	NR	NR	NR	972	932	952			
4	325	275	300	400	320	360	525	435	480	NR	NR	NR	942	912	927			
5	225	200	212	380	315	348	520	460	490	NR	NR	NR	932	922	927			
6	325	235	280	370	330	350	660	500	580	NR	NR	NR	932	912	922			
7	350	270	310	345	340	342	770	660	715	NR	NR	NR	932	872	902			
8	320	250	285	345	345	345	745	695	720	NR	NR	NR	897	887	892			
9	340	235	287	345	335	340	690	500	595	NR	NR	NR	1,030	990	1,010			
10	NR	NR	NR	345	335	340	700	490	595	NR	NR	NR	1,020	990	1,005			N
11	NR	NR	NR	350	340	345	700	680	690	NR	NR	NR	1,020	990	1,005			O
12	NR	NR	NR	NR	NR	NR	700	670	685	924	890	907	1,030	990	1,010			
13	425	265	345	NR	NR	NR	700	680	690	890	470	680	1,040	1,000	1,020			
14	460	270	365	NR	NR	NR	720	680	700	850	380	615	1,030	1,010	1,020			R
15	460	310	385	NR	NR	NR	740	710	725	700	400	550	1,040	1,010	1,025			
16	460	275	367	NR	NR	NR	740	720	730	670	600	635	1,280	880	1,080			E
17	475	380	427	NR	NR	NR	745	715	730	640	600	620	1,638	1,098	1,368			
18	475	455	465	NR	NR	NR	725	695	710	675	645	660	1,588	1,148	1,368			C
19	470	450	460	NR	NR	NR	700	660	680	810	780	795	1,668	1,128	1,398			
20	465	375	420	NR	NR	NR	940	620	780	850	790	820	1,618	1,148	1,383			O
21	485	475	480	NR	NR	NR	920	260	590	880	817	848	1,388	1,128	1,258			R
22	490	480	485	NR	NR	NR	360	260	320	890	830	860	1,398	1,180	1,258			
23	490	460	475	NR	NR	NR	410	300	355	910	870	890	1,198	1,068	1,133			D
24	495	485	490	NR	NR	NR	315	285	300	1,060	1,030	1,045	1,367	1,207	1,287			
25	515	495	505	NR	NR	NR	360	310	335	1,080	1,070	1,075	1,747	1,257	1,502			
26	510	470	490	NR	NR	NR	380	260	320	1,070	930	1,000	1,817	1,397	1,607			
27	NR	NR	NR	NR	NR	NR	340	310	325	950	810	880	1,587	1,327	1,457			
28	NR	NR	NR	NR	NR	NR	445	295	370	860	830	845	NR	NR	NR			
29	NR	NR	NR	390	145	278	530	370	450	1,130	950	1,040						
30	NR	NR	NR	310	155	237	440	380	410	950	890	920						
31	NR	NR	NR				385	365	375	950	910	930						

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	NR	NR	NR	440	420	430	230	210	220	NR	NR	NR	NR	NR	NR
2	NR	NR	NR	NR	NR	NR	440	430	435	220	200	210	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	540	430	485	220	200	210	200	140	170	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	550	430	490	240	200	220	300	140	220	NR	NR	NR
5	NR	NR	NR	NR	NR	NR	440	430	435	240	210	225	350	260	305	NR	NR	NR
6	1,060	680	870	NR	NR	NR	450	440	445	230	230	230	350	280	315	NR	NR	NR
7	1,090	1,050	1,070	NR	NR	NR	450	430	440	230	220	225	380	300	340	NR	NR	NR
8	1,090	1,030	1,060	NR	NR	NR	450	280	365	NR	NR	NR	330	300	315	NR	NR	NR
9	1,070	670	870	NR	NR	NR	320	290	305	NR	NR	NR	360	260	310	NR	NR	NR
10	NR	NR	NR	NR	NR	NR	350	260	305	NR	NR	NR	350	250	300	NR	NR	NR
11	NR	NR	NR	690	550	620	360	260	310	NR	NR	NR	300	250	275	NR	NR	NR
12	NR	NR	NR	570	550	560	340	260	300	NR	NR	NR	290	250	270	NR	NR	NR
13	NR	NR	NR	580	560	570	300	240	270	360	320	340	310	270	290	NR	NR	NR
14	NR	NR	NR	720	520	620	310	250	280	400	350	375	350	310	330	340	340	340
15	NR	NR	NR	590	520	555	320	250	285	400	360	380	350	350	350	360	310	335
16	NR	NR	NR	580	550	565	320	250	285	370	340	355	350	330	340	310	200	255
17	NR	NR	NR	560	540	550	310	260	285	350	330	340	350	290	320	230	200	215
18	NR	NR	NR	570	530	550	300	250	275	350	260	305	350	280	315	260	210	235
19	NR	NR	NR	560	500	530	300	240	270	310	260	285	350	330	340	220	200	210
20	NR	NR	NR	560	510	535	270	260	265	290	140	215	390	330	360	210	200	205
21	NR	NR	NR	570	510	540	270	250	260	NR	NR	NR	390	390	390	240	210	225
22	NR	NR	NR	520	480	500	270	240	255	NR	NR	NR	390	370	380	240	200	220
23	NR	NR	NR	500	480	490	260	240	250	NR	NR	NR	370	310	340	220	200	210
24	NR	NR	NR	480	450	465	260	240	250	NR	NR	NR	NR	NR	NR	240	200	220
25	NR	NR	NR	460	440	450	260	230	245	NR	NR	NR	NR	NR	NR	250	200	225
26	NR	NR	NR	450	430	440	250	230	240	NR	NR	NR	NR	NR	NR	250	250	250
27	NR	NR	NR	440	420	430	240	210	225	NR	NR	NR	NR	NR	NR	250	250	250
28	NR	NR	NR	430	420	425	230	210	220	NR	NR	NR	NR	NR	NR	250	250	250
29	NR	NR	NR	430	420	425	240	200	220	NR	NR	NR	NR	NR	NR	250	250	250
30	NR	NR	NR	430	410	420	240	210	225	NR	NR	NR	NR	NR	NR	360	200	280
31				NR	NR	NR				NR	NR	NR	NR	NR	NR			

NR - No record.

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

F9 1100.00 RUSSIAN RIVER NEAR GUERNEVILLE
(October 1970 through September 1971)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	304	298	301	334	324	329	212	197	206	310	245	270	NR	NR	NR	305	302	303
2	300	293	296	339	325	334	226	210	218	310	218	240	NR	NR	NR	311	310	310
3	297	291	294	340	326	335	239	226	234	251	230	244	NR	NR	NR	312	311	312
4	360	292	325	350	278	325	238	59	140	251	233	245	NR	NR	NR	312	311	312
5	310	290	298	278	251	264	137	62	105	242	227	237	NR	NR	NR	311	311	311
6	294	289	291	264	201	230	160	137	150	230	226	229	NR	NR	NR	311	311	311
7	296	291	294	260	200	230	172	160	166	230	226	229	NR	NR	NR	311	310	310
8	300	294	296	300	260	285	180	167	173	228	228	228	NR	NR	NR	312	311	311
9	358	300	326	317	300	310	188	159	171	228	226	227	NR	NR	NR	311	311	311
10	345	333	340	318	308	313	185	175	180	230	217	224	NR	NR	NR	311	311	311
11	398	301	340	308	299	304	191	185	188	225	214	220	NR	NR	NR	312	311	311
12	301	277	287	306	286	296	199	190	194	NR	NR	NR	NR	NR	NR	311	140	230
13	283	279	281	294	288	292	201	199	200	NR	NR	NR	NR	NR	NR	168	130	145
14	288	282	285	300	294	297	203	200	202	206	199	203	NR	NR	NR	188	168	180
15	311	288	300	300	298	299	233	174	213	201	195	197	NR	NR	NR	187	175	181
16	312	310	311	314	300	307	183	141	162	198	89	150	NR	NR	NR	197	187	192
17	318	310	312	322	314	317	165	141	153	170	142	160	NR	NR	NR	203	193	198
18	319	316	318	322	315	318	165	128	146	179	170	174	NR	NR	NR	NR	NR	NR
19	320	312	315	325	322	324	182	152	170	192	179	186	310	310	310	NR	NR	NR
20	320	318	319	328	325	326	190	138	165	207	192	199	311	310	310	NR	NR	NR
21	354	316	337	330	328	329	152	124	143	212	207	209	311	311	311	NR	NR	NR
22	342	301	318	330	330	330	170	152	165	214	212	213	312	295	310	NR	NR	NR
23	346	292	310	330	330	330	198	170	180	217	214	216	298	175	200	NR	NR	NR
24	341	300	325	330	328	330	212	198	205	217	213	215	211	175	186	NR	NR	NR
25	333	297	315	375	314	345	224	212	218	218	213	216	260	211	236	NR	NR	NR
26	333	330	331	320	250	282	230	224	227	220	218	220	286	260	273	187	100	130
27	337	331	334	256	170	242	240	230	235	221	218	220	299	285	292	160	110	135
28	338	333	336	175	102	130	242	174	230	NR	NR	NR	302	299	301	175	160	167
29	337	332	335	168	157	162	174	128	142	NR	NR	NR	NR	NR	NR	189	175	182
30	338	332	335	197	167	182	230	130	190	NR	NR	NR	NR	NR	NR	291	189	195
31	336	334	335				245	225	235	NR	NR	NR	NR	NR	NR	215	210	208

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	221	215	218	239	239	239	278	272	275	302	293	299	261	258	260	257	249	252
2	229	221	225	240	239	239	279	276	277	308	291	301	268	260	264	259	252	256
3	232	229	230	240	238	239	279	275	277	308	298	303	267	259	263	255	253	254
4	232	230	232	252	238	245	278	271	275	310	295	304	260	253	258	256	250	254
5	238	232	235	275	252	264	272	268	270	307	297	302	259	249	255	258	253	256
6	240	238	239	290	275	283	270	268	270	309	297	303	255	250	253	260	253	257
7	240	239	240	296	290	293	270	269	270	303	291	298	255	250	252	257	251	254
8	242	240	240	299	293	297	270	268	269	301	282	293	252	246	249	255	249	252
9	242	239	242	298	288	293	270	269	270	293	277	285	256	250	254	253	248	251
10	240	231	237	288	262	275	270	270	270	298	285	289	255	248	252	260	251	257
11	233	227	230	264	260	262	271	267	270	298	281	290	252	248	250	262	248	255
12	241	233	237	267	261	264	267	261	262	293	282	289	251	248	250	250	243	247
13	243	241	242	270	265	267	274	267	273	292	274	283	250	249	250	250	246	249
14	246	228	238	270	264	268	273	271	272	283	270	279	250	248	249	257	243	249
15	250	239	245	271	269	270	272	270	270	280	270	276	251	247	250	255	246	249
16	257	250	254	270	250	260	272	270	271	280	261	273	256	250	253	260	252	256
17	257	250	254	261	250	256	274	268	271	270	258	264	251	243	248	262	257	260
18	250	245	246	261	259	260	270	270	270	262	254	259	250	242	247	262	254	258
19	248	246	247	262	260	261	271	268	269	266	258	262	250	246	248	264	258	261
20	248	247	247	263	261	262	271	267	269	266	254	260	259	250	256	266	254	262
21	250	248	249	271	261	266	270	268	270	260	250	256	259	252	256	260	250	255
22	252	250	250	272	270	271	270	261	266	260	250	255	260	253	257	267	260	264
23	251	250	250	274	270	272	269	262	265	260	250	255	261	257	259	263	260	261
24	250	250	250	277	271	274	278	269	273	260	252	256	258	250	253	266	260	263
25	250	250	250	277	271	274	283	275	279	255	251	253	251	248	249	270	265	267
26	250	250	250	283	271	278	287	279	283	262	255	260	250	243	247	272	263	268
27	250	250	250	308	274	298	291	283	287	261	255	259	248	243	246	283	270	276
28	250	247	249	279	271	275	307	285	292	260	253	257	252	247	250	283	272	276
29	247	240	243	274	270	272	329	293	308	261	253	258	252	250	251	272	268	270
30	240	239	240	271	270	270	308	290	299	261	251	257	253	250	252	337	268	290
31				273	270	271				260	254	256	251	248	250			

TABLE D-8

PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date Time	Phytoplankton (number per milliliter)					Most Abundant Phytoplankton (genus %)						Samp	Lab		
			Total	B1-Gr	Green	Flag	Diatoms C P	1	2	3	4	5	6				
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	02-17-71 1330	348				220	$\frac{64}{64}$	$\frac{F 99}{63.2}$	$\frac{D 03}{18.4}$	$\frac{D 66}{18.4}$					5050	5050
		03-16-71 1020	582				420	$\frac{130}{32}$	$\frac{F 99}{72.2}$	$\frac{D 03}{22.3}$	$\frac{D 66}{5.5}$					5050	5050
		04-13-71 0920	2432				926	$\frac{1284}{222}$	$\frac{F 99}{34.1}$	$\frac{D 02}{26.3}$	$\frac{D 03}{17.3}$	$\frac{D 66}{7.8}$	$\frac{D 08}{6.6}$	$\frac{F 54}{4.0}$		5050	5050
		06-23-71 0810	1596				1500	$\frac{96}{0}$	$\frac{F 99}{94.0}$	$\frac{D 03}{6.0}$						5050	5050
		07-08-71 0820	2944				2400	$\frac{544}{0}$	$\frac{F 99}{81.5}$	$\frac{D 09}{16.3}$	$\frac{D 08}{2.2}$					5050	5050
		08-10-71 1030	644				580	$\frac{32}{32}$	$\frac{F 99}{90.0}$	$\frac{D 03}{5.0}$	$\frac{D 66}{5.0}$					5050	5050
		09-21-71 0915	452				420	$\frac{32}{0}$	$\frac{F 99}{92.9}$	$\frac{D 02}{7.1}$						5050	5050
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	10-21-70 1000	900				740	$\frac{160}{0}$	$\frac{F 99}{82.2}$	$\frac{D 03}{17.8}$					5050	5050	
		11-17-70 0950	352				320	$\frac{32}{0}$	$\frac{F 99}{90.9}$	$\frac{D 03}{9.1}$					5050	5050	
		12-16-70 0815	574				510	$\frac{64}{0}$	$\frac{F 99}{88.9}$	$\frac{D 03}{11.1}$					5050	5050	
		01-28-71 0750	352				190	$\frac{130}{32}$	$\frac{F 99}{54.0}$	$\frac{D 03}{36.9}$	$\frac{D 66}{9.1}$				5050	5050	
		05-11-71 0810	1152				610	$\frac{320}{222}$	$\frac{F 99}{52.9}$	$\frac{D 03}{27.8}$	$\frac{D 66}{16.4}$	$\frac{D 65}{2.8}$			5050	5050	
EO B 736.2 212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	06-23-71 0845	3492				3300	$\frac{32}{160}$	$\frac{F 99}{94.5}$	$\frac{D 66}{2.8}$	$\frac{D 65}{1.8}$	$\frac{D 03}{0.9}$		5050	5050		
		07-08-71 0915	1792				1600	$\frac{32}{160}$	$\frac{F 99}{89.3}$	$\frac{D 66}{8.9}$	$\frac{D 09}{1.8}$			5050	5050		
		08-10-71 1115	1244				1180	$\frac{0}{64}$	$\frac{F 99}{94.9}$	$\frac{D 65}{5.1}$				5050	5050		
		09-21-71 1050	17700				1700	$\frac{16000}{0}$	$\frac{D 03}{90.4}$	$\frac{F 99}{9.6}$				5050	5050		
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	10-21-70 1030	866				834	$\frac{0}{32}$	$\frac{F 99}{88.9}$	$\frac{F 03}{3.7}$	$\frac{F 54}{3.7}$	$\frac{D 66}{3.7}$		5050	5050		
		11-17-70 1100	480				480	$\frac{F 99}{100.0}$						5050	5050		
		12-16-70 1030	190				190	$\frac{F 99}{100.0}$						5050	5050		
		01-28-71 0730	608				480	$\frac{128}{0}$	$\frac{F 99}{78.9}$	$\frac{D 15}{10.5}$	$\frac{D 05}{5.3}$	$\frac{D 08}{5.3}$		5050	5050		
		02-17-71 1350				32	444	$\frac{260}{0}$	$\frac{F 99}{51.6}$	$\frac{D 03}{35.3}$	$\frac{F 56}{8.7}$	$\frac{G 22}{4.4}$	$\frac{D 09}{Trace}$		5050	5050	
		03-16-71 1005	478				220	$\frac{194}{64}$	$\frac{F 99}{46.0}$	$\frac{D 03}{27.2}$	$\frac{D 66}{13.4}$	$\frac{D 02}{6.7}$	$\frac{D 06}{6.7}$		5050	5050	
		04-13-71 0910	1090				580	$\frac{446}{64}$	$\frac{F 99}{53.2}$	$\frac{D 03}{17.4}$	$\frac{D 09}{14.7}$	$\frac{D 08}{5.9}$	$\frac{D 66}{5.9}$	$\frac{D 02}{2.9}$	5050	5050	
		05-11-71 0810	898				580	$\frac{222}{96}$	$\frac{F 99}{64.6}$	$\frac{D 03}{21.2}$	$\frac{D 66}{10.7}$	$\frac{D 02}{3.6}$		5050	5050		
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	06-23-71 0700	932				772	$\frac{160}{0}$	$\frac{F 99}{79.6}$	$\frac{D 03}{10.3}$	$\frac{F 54}{3.4}$	$\frac{D 02}{3.4}$	$\frac{D 09}{3.4}$	5050	5050		
		07-08-71 0640	1392				1296	$\frac{96}{0}$	$\frac{F 99}{86.2}$	$\frac{F 54}{6.9}$	$\frac{D 09}{4.6}$	$\frac{D 03}{2.3}$	$\frac{D 08}{Trace}$	5050	5050		
		08-10-71 0900	964				610	$\frac{160}{194}$	$\frac{F 99}{63.3}$	$\frac{D 70}{13.5}$	$\frac{D 03}{10.0}$	$\frac{D 09}{6.6}$	$\frac{D 66}{6.6}$	5050	5050		
		09-21-71 0715	894				320	$\frac{384}{190}$	$\frac{D 03}{35.8}$	$\frac{F 99}{35.8}$	$\frac{D 66}{21.2}$	$\frac{D 08}{7.2}$		5050	5050		

TABLE D-8 (Cont.)

PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date Time	Phytoplankton (number per milliliter)					Most Abundant Phytoplankton (genus %)						Samp	Lab		
			Total	B1-Gr	Green	Flag	Diatoms C P	1	2	3	4	5	6				
EO B 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	10-21-70 1120	1022					F 99 96.9	F 03 3.1							5050	5050
		11-17-70 1145	738	32	610			96 0	F 99 82.7	D 03 13.0	G 02 4.3					5050	5050
		12-16-70 1220	418	64	290			64 0	F 99 69.4	D 03 15.3	G 02 15.3					5050	5050
		01-28-71 1000	288		160			32 96	F 99 55.6	D 66 22.2	D 08 11.1	D 65 11.1				5050	5050
		02-17-71 1430	674	32	546			96 0	F 99 66.7	F 56 14.2	D 03 9.5	D 08 4.8	G 02 4.8			5050	5050
		03-16-71 1050	638		350			192 96	F 99 54.9	D 03 25.1	D 66 15.0	D 02 5.0				5050	5050
		04-13-71 1010	2838		1100			1610 128	F 99 38.8	D 03 31.7	D 08 15.9	D 09 9.2	D 66 2.2	D 70 2.2		5050	5050
		05-11-71 1000	1024		800			224 0	F 99 78.2	D 03 15.6	D 08 6.3					5050	5050

Codes and Abbreviations

Total - Total phytoplankton count per milliliter
 B1-Gr - Blue-Green Algae
 Green - Green Algae
 Flag - Flagellates
 C/P - Centric over Pennate (undifferentiated if no dividing line is shown)

Lab and Sampler Agency Codes

5050 - Department of Water Resources

Most Abundant Phytoplankton Codes

Green Algae
 G 02 Ankistrodemus
 G 22 Selenastrum

Flagellates
Green
 F 03 Euglena

Other Pigmented
 F 54 Dinoflagellates (Dinophyceae)
 F 56 Cryptomonas
 F 99 Unidentified

Diatoms
Centric
 D 02 Coscinodiscus
 D 03 Cyclotella
 D 05 Melosira (fresh water)
 D 06 Stephanodiscus
 D 08 Skeletonema
 D 09 Chaetoceros
 D 15 Thalassiosira

Pennate
 D 65 Navicula
 D 66 Nitzschia
 D 70 Synedra

TABLE D-9
SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams per Liter)

Station Number	Station	OCTOBER 1970							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT		9,730 d			8,190	6,730	8,420	
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	6,210 a	7,080	6,960 df	7,430	6,710	4,220	6,190	6,310 a
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO		4,190 a	4,140 e	3,540	1,880 abd	2,540 a	2,270 abd	
EO B 803.0 159.0	SUISUN BAY AT NICHOLS			3,670 e	3,070	2,950	1,900 a	2,180	5,280
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG	200 bd	140 abd	190 a		229 bd		62 cd	62
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
Station Number	Station	NOVEMBER 1970							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	9,160	8,520 d		8,790	7,180	6,930	9,950	
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	7,430	6,190 a	5,250	6,560	4,010	3,520 ae	8,170	5,590
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO		3,030	2,670	2,960	1,290 bd	4,110	3,860	
EO B 803.0 159.0	SUISUN BAY AT NICHOLS	4,650	2,890	3,360	2,820	1,500	2,910	3,850	2,020
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG	176	166 abd	113 d	78		38	68	58
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
Station Number	Station	DECEMBER 1970							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT								3,350
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	1,320 a	570			433	155 ae	1,070 a	1,780
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	256	32 a	28	27	29		137	
EO B 803.0 159.0	SUISUN BAY AT NICHOLS		16	30	18	17	20		
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG		22	19	18	20 a		26	
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								

*Samples taken at four-day intervals approximately one and one-half hours after high tide.

a Taken after low high tide.

b Taken on following day.

c Taken two days later.

d Taken over one hour off schedule time.

e Taken on preceding day.

f Taken two days earlier.

TABLE D-9 (Cont.)

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams per Liter)

Station Number	Station	JANUARY 1971							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT		4,630	6,120 d	3,050	4,050	3,000	2,150	3,320
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	976	4,440	4,330	1,760	3,030	178 a	1,070	49
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO		644	73 abd	49 d	41 a	68 a		25 a
EO B 803.0 159.0	SUISUN BAY AT NICHOLS								
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG	36							26 a
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
Station Number	Station	FEBRUARY 1971							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	4,180	5,170		5,330 d	4,240	7,710	5,920	
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	425 ad	2,750	1,440	3,740	2,190 cd	3,500 a	2,190 a	
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	123	32 d	27 abd	5,554	1,280		372 bd	
EO B 803.0 159.0	SUISUN BAY AT NICHOLS						2,390	223	
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG		24		25	27		22	
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
Station Number	Station	MARCH 1971							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	6,560		9,150	7,440 d	5,960	7,340	9,230	
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	1,820 a	2,130	5,880	5,160		6,070 a	2,940	2,810
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	169 a	1,260 abd	2,560	2,080	61 a	2,260		78
EO B 803.0 159.0	SUISUN BAY AT NICHOLS	982	1,790		1,460	274	1,870	1,050	51
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG								
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								

*Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

d Taken over one hour off schedule time.

b Taken on following day.

e Taken on preceding day.

c Taken two days later.

f Taken two days earlier.

TABLE D-9 (Cont.)

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS *

(Chlorides in Milligrams per Liter)

Station Number	Station	APRIL 1971							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	2,790		6,040	5,530 de	2,880	6,220	8,980	3,500
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	635 ae	2,430 a	1,080 a	3,280	30	3,910	4,490	3,080
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	16	111 a	336	68 a	70	221 a		595 a
EO B 803.0 159.0	SUISUN BAY AT NICHOLS	11	15	15	396	14	43	1,660 d	371
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG			10 a			10 a		
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
Station Number	Station	MAY 1971							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT		7,260	7,150	5,870	6,230 e	8,760	8,570	6,630
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	3,470 e	4,670 a	5,490	1,040 a	2,190 a	4,590	3,320	4,800
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	377 e	2,730	280 d	897	638 e	2,850	2,600	1,150 bd
EO B 803.0 159.0	SUISUN BAY AT NICHOLS	251 e	2,670	1,680	518	20 e	325	1,960	172
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG		16 a						
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
Station Number	Station	JUNE 1971							
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	5,920 e	6,520	7,880	5,410		8,640		7,510
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	2,410 a	2,390 a	5,380	1,540	6,460 df		6,070	2,540 a
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	4,350	1,910	376 a					
EO B 803.0 159.0	SUISUN BAY AT MIDDLE POINT	1,570 de	1,940	1,490	224	1,450	1,440	1,550	
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG								
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								

*Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

d Taken over one hour off schedule time.

b Taken on following day.

e Taken on preceding day.

c Taken two days later.

f Taken two days earlier.



Appendix E: GROUND WATER QUALITY



INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1970, through September 30, 1971. The data were collected from a number of major ground water sources in the Central Coastal Area in cooperation with other state, local, and federal agencies. During the 1971 water year, 189 wells were sampled in 23 ground water basins and subbasins or subareas.

At the time of field sampling, pH and temperature measurements are normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Wastewater", 13th Edition.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements", on page 15. The locations of the ground water basins and subbasins are shown on Figure C-1, pages 17, 18, and 19.

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TABLE E-1

MINERAL ANALYSES OF GROUND WATER

Lab and Sampler Agency Codes

- 2400 - Santa Clara Valley Water Conservation District
- 5000 - U. S. Geological Survey
- 5050 - Department of Water Resources
- 5100 - Alameda County Flood Control and Water Conservation District
- 5114 - Santa Clara County
- 5216 - City of Gilroy
- 5401 - Alameda County Water District
- 5818 - Cook Research Laboratory

Abbreviations

- Time - Pacific Standard Time on a 24-hour clock
- Temp. - Water temperature in degrees Fahrenheit at the time of field sampling
- pH - Measure of acidity or alkalinity of water
- EC - Electrical conductance in micromhos at 25° C
- TDS - Gravimetric determination of total dissolved solids at 180° C
- SUM - Total dissolved solids by summation of analyzed constituents
- TH - Total hardness
- NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity

Mineral Constituents

- | | | | | | |
|------------------|---|-------------|------------------|---|-----------|
| B | - | Boron | K | - | Potassium |
| Ca | - | Calcium | Mg | - | Magnesium |
| Cl | - | Chloride | Na | - | Sodium |
| CO ₃ | - | Carbonate | NO ₃ | - | Nitrate |
| F | - | Fluoride | SiO ₂ | - | Silica |
| HCO ₃ | - | Bicarbonate | SO ₄ | - | Sulfate |

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TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in				Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Co	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH
NORTH COASTAL REGION 1-00.00																	
UKIAH VALLEY 1-15.00																	
14N/12W-11N01 M	62	8.4	345	27	25	11		3	162		9.3					169	
7-27-71 5050		7.1	345	1.35	2.03	0.48		0.10	2.66		0.26					31	
1000 5050				35	53	12											
15N/12W-35D01 M	67	7.6	373	38	11	29		0	218		16					140	
7-27-71 5050		7.1	395	1.90	0.90	1.26			3.58		0.45					0	
1130 5050				47	22	31											
17N/12W-28M01 M	62	7.3	172	13	8.4	10		0	70		6.0					67	
7-27-71 5050		6.1	172	0.65	0.69	0.44			1.15		0.17					10	
1240 5050				36	39	25											
SANEL VALLEY 1-16.00																	
13N/11W-07D01 M	59	7.8	300	21	23	11		0	1.73		6.0					145	
7-27-71 5050		7.0	290	1.05	1.85	0.48			2.84		0.17					3	
1415 5050				31	55	14											
13N/11W-18D02 M	66	8.2	618	30	58	16		0	322		19					313	
7-27-71 5050		7.3	600	1.50	4.75	0.70			5.28		0.54					49	
1455 5050				22	68	10											
13N/11W-19N01 M	64	7.9	304	25	21	6.8		0	160		6.2					150	
7-27-71 5050		7.3	295	1.25	1.75	0.30			2.62		0.17					19	
1545 5050				38	53	9											
ALEXANDER VALLEY 1-17.00																	
11N/10W-33G01 M	--	7.4	193	11	7.4	14		0	62		19					58	
7-27-71 5050		6.3	185	0.55	0.61	0.61			1.02		0.54					7	
1645 5050				31	34	35											
SANTA ROSA VALLEY 1-18.00																	
SANTA ROSA AREA 1-18.01																	
05N/09W-03P01 M	75	8.4	494	12	3.4	94		4	228		30					44	
7-28-71 5050		9.2	500	0.60	0.28	4.09		0.13	3.74		0.85					0	
1345 5050				12	6	82											
07N/06W-29P01 M	64	8.1	233	15	10	20		0	139		10					80	
7-28-71 5050		7.4	238	0.75	0.85	0.87			2.28		0.28					0	
1030 5050				30	35	35											
07N/08W-03L01 M	66	8.2	505	27	20	54		0	273		24					149	
7-28-71 5050		7.2	500	1.35	1.63	2.35			4.47		0.68					0	
0800 5050				25	31	44											
07N/09W-36M01 M	68	8.2	336	28	8.5	32		0	174		17					105	
7-28-71 5050		7.4	340	1.40	0.70	1.39			2.85		0.48					0	
1145 5050				40	20	40											
08N/08W-20Q01 M	--	8.2	509	5.8	10	89		0	248		34					56	
7-28-71 5050		7.3	500	0.29	0.83	3.87			4.06		0.96					0	
0900 5050				6	17	77											
ANDERSON VALLEY 1-19.00																	
13N/14W-02L01 M	63	---	---														
5-10-71 -		6.1	175														
1300 5050																	
13N/14W-11A01 M	65	---	---														
5-10-71 -		7.1	259														
1220 5050																	
14N/14W-18R02 M	65	---	---														
5-10-71 -		5.9	100														
1345 5050																	
14N/14W-19B01 M	65	7.7	388	24	17	22	0.9	0	70	9.1	75	0.3				131	
5-10-71 5050		6.3	420	1.20	1.42	0.96	0.02		1.15	0.19	2.11	0.00		0.2	262	74	
1400 5050				33	39	27	1		33	6	61						
14N/14W-34G06 M	64	---	---														
5-10-71 -		7.4	590														
1325 5050																	
POINT ARENA 1-20.00																	
12N/16W-18K01 M	54	6.8	421					0	9		60	115				97	
5-11-71 5050		5.5	420						0.15		1.69	1.85				90	
0730 5050																	

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in				Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH
POINT ARENA 1-20.00 (Continued)																	
12N/17W-12L01 M	57	---	---														
5-11-71 -		5.9	122														
0710 5050																	
13N/16W-31M01 M	57	---	---														
5-11-71 -		5.9	405														
0810 5050																	
13N/17W-24D01 M	59	7.5	300	814	4.1	40	1.3	0	19	9.4	57	18		0.0	184	38	
5-10-71 5050		6.3	310	0.42	0.34	1.74	0.03		0.31	0.20	1.61	0.29				22	
1530 5050				17	13	69	1		13	8	67	12					
13N/17W-25H01 M	62	---	---														
5-10-71 -		5.9	410														
1600 5050																	
FORT BRAGG TERRACE 1-21.00																	
17N/17W-30F01 M	57	---	---														
5-11-71 -		5.7	800														
1020 5050																	
17N/17W-30M01 M	54	7.7	314	11	10	32	4.8	0	43	25	44	20		0.1	188	69	
5-11-71 5050		6.3	315	0.55	0.83	1.39	0.12		0.70	0.52	1.24	0.32				34	
0915 5050				19	29	48	4		25	19	45	11					
19N/17W-20N01 M	58	---	---														
5-11-71 -		5.9	175														
1200 5050																	
19N/17W-30G01 M	57	---	---														
5-11-71 -		5.9	280														
1145 5050																	
19N/17W-30Q01 M	56	---	---														
5-11-71 -		6.5	358														
1130 5050																	
SAN FRANCISCO BAY REGION 2-00.00																	
PETALUMA VALLEY 2-01.00																	
03N/06W-01Q01 M	70	8.3	1300	33	31	218	4.9	0	586	0.2	148	10		0.2	749	209	
7-29-71 5050		7.7	1400	1.65	2.53	9.48	0.12		9.60	0.00	4.18	0.16				0	
0930 5050				12	18	69	1		69		30	1					
03N/06W-18M01 M	61	7.9	555	30	37	27		0	197		45					229	
7-29-71 5050		6.7	560	1.50	3.08	1.17			3.23		1.27					68	
0830 5050				26	54	20											
04N/06W-18E01 M	62	8.3	991	63	59	81		0	532		55					399	
7-28-71 5050		7.5	1010	3.14	4.83	3.52			8.72		1.55					0	
1730 5050				27	42	31											
04N/06W-21Q01 M	72	8.3	1130	19	15	2.04		0	374		175					108	
7-29-71 5050		7.9	1190	0.95	1.21	8.87			6.13		4.94					0	
1030 5050				9	11	80											
05N/07W-26E01 M	66	8.3	759	48	22	83		0	342		70					211	
7-28-71 5050		7.7	760	2.40	1.82	3.61			5.60		1.97					0	
1600 5050				31	23	46											
05N/07W-34E02 M	65	8.8	861	6.9	3.9	174		19	372		72					33	
7-28-71 5050		8.9	875	0.34	0.32	7.57		0.63	6.10		2.03					0	
1500 5050				4	4	92											
NAPA-SONOMA VALLEY 2-02.00																	
NAPA VALLEY 2-02.01																	
03N/03W-18G01 M	66	7.8	1130	71	51	89		0	374		157					388	
8-05-71 5050		7.3	1010	3.54	4.21	3.87			6.13		4.43					81	
0900 5050				31	36	33											
04N/04W-05C01 M	70	7.8	300	7.8	6.9	44		0	88		29					48	
8-05-71 5050		7.1	298	0.39	0.57	1.91			1.44		0.82					0	
1140 5050				14	20	66											
04N/04W-14C02 M	68	7.7	1610	101	51	150		0	319		352					463	
8-05-71 5050		7.3	1700	5.04	4.21	6.52			5.23		9.93					201	
1700 5050				32	27	41											
05N/04W-09Q02 M	65	8.0	497	24	15	61		0	220		45					122	
8-05-71 5050		7.3	475	1.20	1.24	2.65			3.60		1.27					0	
1250 5050				24	24	52											

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in				Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH
NAPA VALLEY 2-02.01 (Continued)																	
05N/04W-15E01 M	64	7.8	402	19	14	48		0	203		30					105	
8-05-71 5050		7.4	395	0.95	1.15	2.09			3.33		0.85					0	
1045 5050			23	27	50												
06N/04W-15Q01 M	76	7.9	243	9.6	6.8	32		0	125		7.6					52	
8-05-71 5050		7.1	220	0.48	0.56	1.39			2.05		0.21					0	
1340 5050			20	23	57												
07N/05W-06F01 M	65	8.2	290	20	12	22	0.8	0	163	5.1	7.0	11		0.2	177	101	
8-05-71 5050		7.2	285	1.00	1.02	0.96	0.02		2.67	0.11	0.20	0.18				0	
1630 5050			33	34	32		1		85	3	6	6					
08N/06W-06L05 M	75	8.0	270	6.7	5.7	41	10	0	136	16	6.2	0.6		0.2	214	40	
8-05-71 5050		7.3	265	0.33	0.47	1.78	0.26		2.23	0.33	0.17	0.01				0	
1500 5050			12	16	63		9		82	12	6	0					
SONOMA VALLEY 2-02.02																	
04N/05W-14D02 M	72	8.2	965	14	12	184		0	307		141					84	
7-29-71 5050		7.3	1000	0.70	0.98	8.00			5.03		3.98					0	
1130 5050			7	10	83												
05N/05W-28R01 M	68	8.3	1020	14	8.8	218	1.3	0	460	36	89	0.8		1.1	615	71	
7-29-71 5050		8.1	1000	0.70	0.72	9.48	0.03		7.54	0.75	2.51	0.01				0	
1530 5050			6	7	87		0		70	7	23	0					
05N/06W-12F01 M	64	7.7	462	23	20	44		0	194		40					138	
7-29-71 5050		6.8	465	1.15	1.61	1.91			3.18		1.13					0	
1245 5050			25	34	41												
06N/06W-23M02 M	74	8.2	496	16	7.8	71		0	1.44		84					72	
7-29-71 5050		7.7	490	0.80	0.64	3.09			2.36		2.37					0	
1330 5050			18	14	68												
06N/06W-26E01 M	72	8.0	409	2.7	0.4	78	10	0	144	2.6	50	0.1		1.6	296	8	
7-29-71 5050		8.1	410	0.13	0.03	3.39	0.26		2.36	0.05	1.41	0.00				0	
1430 5050			3	1	89		7		62	1	37						
SUISUN-FAIRFIELD VALLEY 2-03.00																	
03N/01E-21D01 M	70	8.5	2540	25	27	492		17	668		450					172	
8-02-71 5050		8.1	2500	1.25	2.19	21.40		0.57	10.95		12.69					0	
1500 5050			5	9	86												
04N/01E-08F01 M	73	8.1	973	48	22	136		0	240		164					210	
8-02-71 5050		7.3	975	2.40	1.80	5.92			3.93		4.63					14	
1600 5050			24	18	58												
04N/02W-04D01 M	68	8.3	1450	75	89	150		0	7.09		130					553	
8-03-71 5050		7.5	1350	3.74	7.31	6.52			11.62		3.67					0	
0845 5050			21	42	37												
04N/02W-18M01 M	--	8.3	1150	112	39	90		0	4.04		110					441	
8-03-71 5050		7.5	1200	5.59	3.22	3.92			6.62		3.10					110	
0945 5050			44	25	31												
05N/01W-25R01 M	65	9.2	1670	118	32	178		0	252		418					426	
8-02-71 5050		7.3	1700	5.89	2.62	7.74			4.13		11.79					219	
1630 5050			36	16	48												
05N/02W-21P03 M	65	8.2	964	96	36	69		0	442		64					386	
8-03-71 5050		7.2	975	4.79	2.92	3.00			7.24		1.80					24	
0800 5050			45	27	28												
PITTSBURG PLAIN 2-04.00																	
02N/01W-04Q01 M	67	-	3770			500					855						
8-04-71 5050		7.5	4000			21.75					24.12						
1215 5050																	
02N/01W-11R01 M	70	8.1	923	56	52	61	3.7	0	360	90	68	24		0.2	615	355	
8-04-71 5050		7.5	950	2.79	4.30	2.65	0.09		5.90	1.87	1.92	0.39				60	
1130 5050			28	44	27		1		58	19	19	4					
CLAYTON VALLEY 2-05.00																	
02N/01W-30J01 M	69	7.4	1030	90	52	61		0	398		58					437	
8-04-71 5050		7.2	1025	4.49	4.24	2.65			6.52		1.64					111	
1315 5050			40	37	23												
02N/01W-31D01 M	75	7.6	1070	86	63	45		0	358		119					475	
8-04-71 5050		7.3	1125	4.29	5.20	1.96			5.87		3.36					181	
1345 5050			38	45	17												
02N/02W-26B01 M	68	7.6	943	41	32	111		0	354		133					234	
8-04-71 5050		7.9	975	2.05	2.63	4.83			5.80		3.75					0	
1500 5050			21	28	51												

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in						Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH		
CLAYTON VALLEY 2-05.00 (Continued)																			
02N/02W-36J01 M	66	7.7	1270	69	50	136		0	405		137					377			
8-04-71 5050		7.3	1250	3.44	4.09	5.92			6.64		3.86				45				
1415 5050				26	30	44													
YGNACIO VALLEY 2-06.00																			
01N/02W-11N01 M	67	7.9	1410	93	43	158		0	538		176				410				
8-04-71 5050		7.4	1450	4.64	3.55	6.87			8.82		4.96				0				
1545 5050				31	23	46													
02N/02W-35D01 M	65	7.5	2730	119	127	250	1.2	0	462	450	374	2.2		2.6	1630	818			
8-12-71 5050		7.3	3000	5.94	10.40	10.88	0.03		7.57	9.37	10.55	0.04			439				
0900 5050				22	38	40	0		28	34	38	0							
SANTA CLARA VALLEY 2-09.00																			
EAST BAY AREA - - BAY PLAIN 2-09.01																			
01S/04W-04A01 M	--	7.8	1240	85	55	95		0	372		172				440				
8-10-71 5050		---	----	4.24	4.55	4.13			6.10		4.85				135				
1230 5100				33	35	32													
02S/03W-28G01 M	--	8.2	974	73	26	89		0	276		153				289				
8-10-71 5050		---	----	3.64	2.13	3.87			4.52		4.32				63				
0915 5100				38	22	40													
02S/04W-12R01 M	66	8.2	371	23	12	36		0	164		36				106				
8-10-71 5050		---	----	1.15	0.97	1.57			2.69		1.02				0				
0950 5100				31	26	43													
02S/04W-25A01 M	--	8.3	806	45	13	109		0	300		96				165				
8-10-71 5050		---	----	2.25	1.05	4.74			4.92		2.71				0				
0930 5100				28	13	59													
03S/02W-07J01 M	64	7.6	1100	106	44	71		0	451		74				444				
8-10-71 5050		---	----	5.29	3.58	3.09			7.39		2.09				74				
0815 5100				44	30	26													
03S/02W-32D02 M	74	8.3	791	36	11	134		0	276		89				133				
8-10-71 5050		---	----	1.80	0.86	5.83			4.52		2.51				0				
0800 5100				21	10	69													
EAST BAY AREA - - ABOVE HAYWARD FAULT 2-09.01																			
04S/01W-07R05 M	64	8.0	1802	168	63	1.2		0	362	42	348	78		0.1	1230	679			
9-22-71 5050		6.8	1800	8.37	5.20	4.44	0.03		5.93	0.87	9.82	1.26			382				
1200 5401				46	29	25	0		33	5	55	7							
04S/01W-21P06 M	63	8.0	638			46		0	219		56				226				
9-29-71 5050		7.4	690			2.00			3.59		1.58				47				
1300 5401						31													
04S/01W-27B04 M	--	8.0	1080	95	25	87	1.2	0	386	113	58	33		0.7	612	340			
6-11-71 5050		---	----	4.75	2.04	3.78	0.03		6.33	2.35	1.64	0.53			23				
- 5401				45	19	36	0		58	22	15	5							
04S/01W-27K01 M	--	7.8	1540	88	78	152	1.6	0	560	162	154	29		1.0	923	540			
6-10-71 5050		---	----	4.37	6.42	6.61	0.04		9.18	3.37	4.34	0.47			81				
- 5401				25	37	38	0		53	19	25	3							
04S/01W-34R02 M	68	7.7	627			72		0	3.04		41				170				
9-29-71 5050		7.6	820			3.13			4.98		1.16				0				
0905 5401						48													
EAST BAY AREA - UPPER AQUIFER 2-09.01																			
04S/01W-18C02 M	66	8.2	894			53		0	313		65				360				
9-22-71 5050		7.4	970			2.30			5.13		1.83				104				
0745 5401						24													
04S/01W-19J07 M	60	7.8	899			45		0	235		116				355				
9-29-71 5050		7.4	1000			1.96			3.85		3.27				163				
0800 5401						22													
04S/01W-33C01 M	63	8.0	1720			146		0	657		141				624				
9-22-71 5050		7.2	1720			6.35			10.77		3.98				85				
1420 5401						34													
04S/02W-14P02 M	--	7.5	13040	1300	663	738	7.0	0	195	206	5050	0.9		0.7	9840	5970			
5-26-71 5050		---	----	64.77	54.51	32.10	0.18		3.20	4.29	142.46	0.01			5810				
-- 5401				43	36	21	0		2	3	95	0							
04S/02W-24F06 M	64	7.4	6750			173		0	284		2180				3080				
10-06-71 5050		6.7	7000			7.52			4.65		61.50				2847				
1430 5401						11													

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in							Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH			
EAST BAY AREA -- LOWER AQUIFER 2-09.01																				
04S/01W-07P02 M 9-21-71 5050 0915 5401	64	8.3 7.1	900 920				56 2.44 26		0	353 5.78		59 1.66						357 68		
04S/01W-29L12 M 9-29-71 5050 1215 5401	62	7.9 7.3	2230 2400				71 3.09 15		0	197 3.23		585 16.50						913 751		
04S/01W-30E03 M 6-04-71 5050 -- 5401	--	7.9 ---	1760 ----	178 8.88 53	51 4.17 25	87 3.78 22	2.2 0.06 0	0	232 3.80 22	47 0.98 6	430 12.13 71	5.4 0.09 1	0.4	1300			653 463			
04S/01W-30E03 M 9-29-71 5050 0930 5401	66	---	2100 1840									556 15.68								
04S/01W-31B03 M 9-30-71 5050 1000 5401	66	7.6 7.3	3460 3150				90 3.92 12		0	170 2.79		1020 28.77						1460 1320		
04S/02W-11Q10 M 9-21-71 5050 1025 5401	66	7.8 7.5	786 875				43 1.87 23		0	267 4.38		81 2.28						310 91		
04S/02W-23F02 M 9-21-71 5050 1230 5401	65	8.0 7.4	1280 1270				52 2.26 18		0	238 3.90		247 6.97						516 320		
04S/02W-27L01 M 9-29-71 5050 0830 5401	68	8.4 7.9	595 650				110 4.78 75		4 0.13	303 4.97		26 0.73						77 0		
05S/01W-01R01 M 5-26-71 5050 -- 5401	--	8.6 ---	762 ---	64 3.17 38	24 1.99 24	74 3.22 38	1.8 0.05 0	0	339 5.56 68	13 0.27 3	76 2.14 26	15 0.24 3	0.1	414			258 0			
05S/01W-04D01 M 9-29-71 5050 0930 5401	70	8.5 7.9	615 650			117 5.09 79		5 0.17	278 4.56		36 1.02							66 0		
05S/01W-08A03 M 9-21-71 5050 1330 5401	76	8.4 8.0	633 630			125 5.44 81		5 0.17	332 5.44		19 0.54							64 0		
05S/01W-17A01 M 5-25-71 5050 -- 5401	--	8.7 ---	516 ---	7.4 0.37 7	2.6 0.21 4	111 4.83 89	0.6 0.02 0	0	282 4.62 83	29 0.60 11	12 0.34 6	0.7 0.01 0	0.3	301			29 0			
05S/02W-01N01 M 5-25-71 5050 -- 5401	--	8.7 ---	429 ---	3.8 0.19 4	2.3 0.19 4	90 3.92 91	0.6 0.02 1	0	220 3.60 80	24 0.50 11	14 0.39 9	0.3 0.00	0.2	249			19 0			
05S/02W-01N01 M 9-21-71 5050 1300 5401	76	8.2 7.8	431 450			94 4.09 91		0	217 3.56		14 0.39							20 0		
05S/02W-14E03 M 10-06-71 5050 0830 5401	66	8.2 8.1	433 490			63 2.74 61		0	229 3.75		16 0.45							89 0		
SOUTH BAY AREA 2-09.02																				
05S/01E-31R01 M 6-28-71 5050 -- 2400	--	8.3 ---	1020 ---			112 4.87 48		0	207 3.39		143 4.03							263 93		
06S/01E-17G05 M 6-11-71 5050 -- 2400	72	8.1 ---	619 ---	26 1.28 20	5.1 0.42 7	104 4.52 72	1.4 0.04 1	0	266 4.36 68	41 0.85 13	44 1.24 19	0.0	0.4	344			85 0			
06S/01E-21R01 M 6-25-71 5050 -- 2400	--	---	650 ---								48 1.35									
06S/01E-22P01 M 6-25-71 5050 -- 2400	--	8.2 ---	721 ---			75 3.26 44		0	284 4.65		54 1.52							208 0		
06S/01W-14E01 M 6-28-71 5050 -- 2400	--	8.1 ---	505 ---			50 2.18 43		0	170 2.79		37 1.04							146 7		
06S/01W-15P01 M 7-14-71 5050 -- 2400	--	---	429 ---								12 0.34									
06S/01W-18P01 M 7-14-71 5050 -- 2400	--	---	519 ---								23 0.65									

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in				Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH
SOUTH BAY AREA 2-09.02 (Continued)																	
06S/01W-26D02 M 7-06-71 5050 -- 2400	--	---	483									19 0.54					
06S/01W-31F01 M 6-25-71 5050 -- 2400	--	---	615									62 1.75					
06S/02W-09Q02 M 6-28-71 5050 -- 2400	--	8.2 ---	620 ---			50 2.18 32		0	287 4.70		28 0.79					227 0	
06S/02W-20N01 M 6-29-71 5050 -- 2400	--	8.2 ---	463 ---			27 1.17 25		0	190 3.11		33 0.93					178 23	
06S/02W-34N01 M 6-28-71 5050 -- 2400	--	---	650								37 1.04						
07S/01E-24A01 M 6-25-71 5050 -- 2400	--	---	740								23 0.65						
07S/02E-18B01 M 6-25-71 5050 -- 2400	--	8.1 ---	1260 ----	92 4.60 33	49 4.02 29	121 5.26 38	1.4 0.04 0	0	541 8.87 64	92 1.92 14	87 2.45 18	36 0.58 4	0.3		753	432 0	
07S/02E-20B01 M 6-25-71 5050 -- 2400	--	---	822								42 1.18						
07S/02E-33C04 M 6-28-71 5050 -- 2400	---	8.1 ---	928 ---			56 2.44 24		0	455 7.46		47 1.32					386 13	
07S/01W-06B01 M 6-28-71 5050 -- 2400	--	---	534								48 1.35						
08S/01E-04M01 M 6-11-71 5050 -- 2400	64	8.1 ---	491 ---	42 2.08 39	30 2.46 46	17 0.74 14	1.0 0.03 1	0	235 3.85 72	35 0.73 14	23 0.65 12	6.8 0.11 2	0.1		258	227 35	
08S/01E-08F03 M 6-14-71 5050 -- 2400	--	7.8 ---	364 ---	24 1.22 32	20 1.61 42	23 1.00 26	0.6 0.02 0	0	172 2.82 74	28 0.58 15	14 0.39 10	2.5 0.04 1	0.2		182	142 1	
08S/01E-09L03 M 6-25-71 5050 -- 2400	--	---	457								18 0.51						
08S/01E-20Q01 M 6-11-71 5050 -- 2400	--	7.9 ---	486 ---	33 1.64 30	40 3.26 59	13 0.56 10	1.2 0.03 1	0	293 4.80 90	17 0.35 6	7.4 0.21 4	0.3 0.00	0.2		257	246 6	
08S/01E-27C01 M 6-11-71 5050 -- 2400	--	7.5 ---	756 ---	39 1.96 23	65 5.32 61	31 1.35 16	0.3 0.01 0	0	365 5.98 69	83 1.73 20	21 0.59 7	23 0.37 4	0.4		424	364 65	
08S/01E-27C02 M 6-28-71 5050 -- 2400	--	8.5 ---	729 ---			28 1.22 15		12 0.40	326 5.34		21 0.59					357 70	
08S/01E-27G01 M 6-11-71 5050 -- 2400	--	7.7 ---	764 ---	37 1.87 22	63 5.17 60	36 1.57 18	0.5 0.01 0	0	366 6.00 70	65 1.35 16	35 0.99 11	14 0.23 3	0.5		434	352 52	
08S/01E-36M02 M 6-14-71 5050 -- 2400	--	7.9 ---	2910 ----	136 6.79 19	274 22.53 64	139 6.05 17	0.8 0.02 0	0	662 10.85 31	552 11.49 33	380 10.72 31	112 1.81 5	0.2		2100	1468 924	
08S/02E-07F01 M 6-25-71 5050 -- 2400	--	8.4 ---	545			28 1.22 21		3 0.10	200 3.28		20 0.56					228 59	
08S/02E-17A01 M 6-28-71 5050 -- 2400	--	---	254								16 0.45						
08S/01W-15B01 M 6-29-71 5050 -- 2400	--	8.4 ---	633			27 1.17 18		2 0.07	226 3.70		32 0.90					274 85	
09S/02E-02C01 M 6-28-71 5050 -- 2400	--	8.3 ---	537			33 1.44 26		0	184 3.02		23 0.65					209 58	

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in							Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH			
LIVERMORE VALLEY 2-10.00																				
02S/02E-35G02 M 8-09-71 5050 1250 5100	71	8.0	3730	100	87	510			0	407		967					606			
		---	----	4.99	7.12	22.18				6.67		27.28					272			
				14	21	65														
03S/01E-08H03 M 8-09-71 5050 0945 5100	62	8.0	1380	76	93	72			0	416		210					574			
		---	----	3.79	7.68	3.13				6.82		5.92					233			
				26	53	21														
03S/01E-11H01 M 8-09-71 5050 1005 5100	--	8.1	909	53	62	46			0	355		97					389			
		---	----	2.64	5.13	2.00				5.82		2.74					98			
				27	53	20														
03S/01E-15L01 M 8-09-71 5050 1345 5100	--	8.2	476	39	19	34			0	198		32					177			
		---	----	1.94	1.60	1.48				3.24		0.90					15			
				39	32	29														
03S/02E-08H01 M 8-10-71 5050 -- 5100	--	8.3	749	40	50	39			0	265		69					306			
		---	----	2.00	4.11	1.70				4.34		1.95					89			
				26	52	22														
03S/02E-29D01 M 8-09-71 5050 1020 5100	--	8.2	687	51	33	46			0	268		57					263			
		---	----	2.55	2.70	2.00				4.39		1.61					43			
				35	37	28														
03S/03E-19C01 M 8-09-71 5050 1230 5100	--	8.3	1630	36	45	256	2.0		0	540	104	228	0.0		6.3	937	276			
		---	----	1.80	3.71	11.14	0.05			8.85	2.16	6.43					0			
				11	22	67	0			51	12	37								
CENTRAL COASTAL REGION 3-00.00																				
PAJARO VALLEY 3-02.00																				
12S/01E-11N01 M 3-24-71 5050 1130 5050	--	8.3	607	37	34.7	25			0	155		74	38				235			
		---	----	1.85	2.85	1.09				2.54		2.09	0.61							
				32	49	19														
12S/01E-11N01 M 8-11-71 5050 1000 5050	68	8.4	682	47	37	27			6	126		100	42				270			
		---	----	2.35	3.04	1.17		0.20		2.07		2.82	0.68							
				36	46	18														
12S/01E-25G01 M 3-24-71 5050 -- 5050	--	8.3	518	23	24.2	48			0	213		29	0.0				157			
		---	----	1.15	1.99	2.09				3.49		0.82								
				22	38	40														
12S/02E-18K03 M 8-11-71 5050 1400 5050	67	8.6	418	48	13	25			7	198		14	0.0				175			
		---	----	2.40	1.07	1.09		0.23		3.25		0.39								
				53	23	24														
GILROY-HOLLISTER VALLEY 3-03.00																				
SOUTH SANTA CLARA COUNTY 3-03.01																				
09S/03E-25N03 M 6-14-71 5050 -- 5114	--	8.3	460	41	21	25	1.3		0	189	21	23	43		0.0	283	187			
		---	----	450	2.00	1.73	1.09	0.03		3.10	0.44	0.65	0.69							
				21	36	22	1			64	9	13	14							
09S/03E-33G02 M 6-08-71 5050 -- 5114	--	8.1	482	41	21	30	1.1		0	215	40	17	26		0.0	292	190			
		---	----	470	2.05	1.73	1.30	0.03		3.53	0.83	0.48	0.42							
				40	34	25	1			67	16	9	8							
10S/03E-01E02 M 6-14-71 5050 -- 5114	--	8.3	553	49	34	16	0.8		0	255	37	19	34		0.0	348	263			
		---	----	540	2.45	2.79	0.70	0.02		4.18	0.77	0.54	0.55							
				41	47	12	0			69	13	9	9							
10S/03E-02K01 M 6-14-71 5050 -- 5114	--	8.2	380	39	22	12			0	198		10	14				188			
		---	----	370	1.95	1.81	0.52			3.25		0.28	0.23							
				46	42	12														
10S/03E-11G01 M 6-14-71 5050 -- 5114	--	7.6	404	41	23	12			0	216		12	4.1				198			
		---	----	390	2.05	1.89	0.52			3.54		0.34	0.07							
				46	42	12														
10S/03E-13D02 M 6-16-71 5050 -- 5114	--	8.3	495	48	30	16			0	224		26	13				244			
		---	----	490	2.40	2.47	0.70			3.67		0.73	0.21							
				43	44	13														
10S/03E-14D01 M 6-08-71 5050 -- 5114	--	8.2	595	31	52	16	0.5		0	273	24	40	25		0.0	378	290			
		---	----	590	1.55	4.27	0.70	0.01		4.48	0.50	1.13	0.40							
				24	65	11	0			69	8	17	6							
10S/03E-23J01 M 6-08-71 5050 -- 5114	--	8.2	489	40	28	20			0	170		36	37				214			
		---	----	470	2.00	2.30	0.87			2.79		1.02	0.60							
				39	44	17														
10S/03E-26J01 M 6-08-71 5050 -- 5114	--	8.0	472	43	25	18			0	162		32	23				209			
		---	----	450	2.15	2.06	0.78			2.66		0.90	0.37							
				43	41	16														

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Time	Lab Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in									Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
					Co	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH					
SOUTH SANTA CLARA COUNTY 3-03.01 (Continued)																							
10S/04E-17F01 M		--	8.3	861	49	44	71	0.8	0	364	20	94	11					0.1	490	302			
6-14-71 5050		---	---	850	2.45	3.62	3.09	0.02		5.97	0.42	2.65	0.18										
-- 5114					27	39	34	0		65	4	29	2										
10S/04E-18G02 M		--	8.3	522	43	31	19	0.8	0	228	29	31	28					0.0	325	234			
6-14-71 5050		---	---	510	2.15	2.55	0.83	0.02		3.74	0.60	0.87	0.45										
-- 5114					39	46	15	0		66	11	15	8										
10S/04E-18J01 M		--	8.5	429	43	21	22		6	194		17	17							192			
6-14-71 5050		---	---	410	2.15	1.73	0.96		0.20	3.18		0.48	0.27										
-- 5114					44	36	20																
10S/04E-28D02 M		--	8.2	554	33	37	32		0	248		34	19							235			
6-14-71 5050		---	---	550	1.65	3.04	1.39			4.07		0.96	0.31										
-- 5114					27	50	23																
10S/04E-34L05 M		--	8.2	761	55	42	46	1.0	0	307	40	54	52					0.0	482	309			
6-14-71 5050		---	---	750	2.74	3.45	2.00	0.03		5.03	0.83	1.52	0.84										
-- 5114					33	42	24	1		61	10	19	10										
11S/04E-03L02 M		--	8.4	470	44	20	31		6	220		17	11							193			
6-14-71 5050		---	---	460	2.20	1.64	1.35		0.20	3.61		0.48	0.18										
-- 5114					42	32	26																
11S/04E-04Q03 M		--	8.3	841	68	60	25	0.5	0	325	90	27	104					0.1	551	415			
6-14-71 5050		---	---	830	3.39	4.93	1.09	0.01		5.33	1.87	0.76	1.67										
-- 5114					36	52	12	0		55	20	8	17										
11S/04E-06B01 M		--	8.3	430	38	22	19	0.8	0	197	32	16	18					0.0	264	186			
6-08-71 5050		---	---	420	1.90	1.81	0.83	0.02		3.23	0.67	0.45	0.29										
-- 5114					42	40	18	0		70	14	10	6										
11S/04E-18K02 M		--	8.2	693	63	40	29		0	240		22	73							320			
6-14-71 5050		---	---	680	3.14	3.29	1.26			3.94		0.62	1.18										
-- 5114					41	43	16																
11S/04E-09P05 M		--	8.4	621	62	33	22		6	247		26	44							290			
6-16-71 5050		---	---	610	3.09	2.71	0.96		0.20	4.05		0.73	0.71										
-- 5114					46	40	14																
11S/04E-16J01 M		--	7.8	631	67	41	30	1.2	0.0	329	57	29	27					0.09	28	457	335		
2-26-71 5818		---	---	---	3.34	3.37	1.30	0.03		5.40	1.19	0.82	0.43										
-- 5216					42	42	16	0		69	15	10	6										
11S/04E-16J01 M		--	8.3	806	85	45	29		0	340		30	53							398			
6-16-71 5050		---	---	800	4.24	3.70	1.26			5.58		0.85	0.85										
-- 5114					46	40	14																
11S/04E-16L01 M		--	8.3	956	39	82	52	1.1	0	449	91	51	13					0.1	548	436			
6-16-71 5050		---	---	1070	1.95	6.74	2.26	0.03		7.36	1.89	1.44	0.21										
-- 5114					18	61	21	0		68	17	13	2										
11S/04E-21B02 M		--	8.2	744	71	43	25	1.1	0	330	67	26	52					0.1	504	353			
6-08-71 5050		---	---	730	3.54	3.53	1.09	0.03		5.41	1.39	0.73	0.84										
-- 5114					43	43	13	1		65	16	9	10										
SAN BENITO COUNTY 3-03.02																							
12S/05E-28L03 M		63	8.1	1620	76	101	171	4.7	0	695	239	106	2.1					1.1	985	606			
12-02-70 5050			7.2	1400	3.79	8.30	7.44	0.12		11.40	4.97	2.99	0.03										
1415 5050					19	42	38	1		59	26	15	0										
12S/05E-28L03 M		63	8.2	1650	70	106	168	4.4	0	690	236	107	1.8					10.0	1080	610			
2-17-71 5050			7.3	520	3.49	8.71	7.31	0.11		11.32	4.91	3.02	0.03										
-- 5050					18	44	37	1		59	25	16	0										
12S/05E-28L03 M		--	7.7	1740	96	102	166		0	747	240	128	1.0							1120	659		
8-31-71 5050		---	---	---	4.79	8.38	7.22			12.25	4.99	3.61	0.02										
0820 5050					24	41	35			59	24	17	0										
12S/05E-28N01 M		63	8.2	1560	68	99	155	5.3	0	556	303	103	2.6					1.0	975	578			
12-02-70 5050			7.2	1450	3.39	8.14	6.74	0.14		9.12	6.30	2.90	0.04										
1440 5050					18	44	37	1		50	34	16	0										
12S/05E-28N01 M		--	7.6	1780	94	110	174		0	603	336	122	26							827	686		
8-31-71 5050		---	---	---	4.69	9.04	7.57			9.89	6.99	3.44	0.42										
0850 5050					22	42	36			48	34	16	2										
12S/05E-28P01 M		--	7.6	1520	82	93	144		0	633	226	103	4.4							982	588		
8-31-71 5050		---	---	---	4.09	7.64	6.26			10.38	4.70	2.90	0.07										
0740 5050					23	42	35			58	26	16	0										
12S/05E-29J01 M		57	8.3	2520	38	65.6	444		0	474	378	385	19							365			
12-02-70 5050			7.5	2350	1.90	5.39	19.31			7.77	7.86	10.86	0.31										
1515 5050					7	20	73			29	29	41	1										
12S/05E-33A01 M		52	7.8	2200	92	143.2	268		0	1270	165	126	1.6							819			
12-03-70 5050			7.3	2000	4.59	11.77	11.66			20.83	3.43	3.55	0.03										
1330 5050					16	42	42			75	12	13	0										

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in				Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH
SAN BENITO COUNTY 3-03.02 (Continued)																	
12S/05E-33C01 M	--	7.6	1360	68	80	132		0	575	188	80	0.6			895	500	
8-31-71 5050		---	---	3.39	6.58	5.74			9.43	3.91	2.26	0.01					
0730 5050				22	42	36			60	25	15	0					
12S/05E-33D04 M	65	7.8	2050	58	105	278		0	677	378	160	16				577	
12-02-70 5050		7.8	1950	2.89	8.63	12.09			11.10	7.86	4.51	0.26					
0910 5050				12	37	51			47	33	19	1					
12S/05E-34N01 M	58	8.2	1130	46	68.8	97		0	387	206	75	0.0				398	
12-02-70 5050		8.0	1100	2.30	5.66	4.22			6.35	4.28	2.12						
-- 5050				19	46	35			50	33	17						
SALINAS VALLEY 3-04.00																	
PRESSURE AREA 3-04.01																	
13S/02E-19J01 M	--	8.3	1230	89	40.8	111		0	221		307	1.6				390	
3-24-71 5050		---	---	4.44	3.35	4.83			3.62		8.66	0.03					
1035 5050				35	27	38											
13S/02E-23L01 M	--	8.3	662	22	20.9	70		0	146		106	7.6				141	
3-24-71 5050		---	---	1.10	1.72	3.04			2.39		2.99	0.12					
1435 5050				19	29	52											
13S/02E-29F01 M	68	8.6	544	36	16	61		8	188		65	1.7				146	
8-10-71 5050		---	---	1.80	1.32	2.65		0.27	3.08		1.83	0.03					
1355 5050				31	23	46											
13S/02E-30A01 M	71	8.5	1640	116	47	142		8	173		397	18				482	
8-10-71 5050		---	---	5.79	3.86	6.18		0.27	2.84		11.20	0.29					
1345 5050				37	24	39											
14S/02E-02C01 M	63	8.6	468	50	14	37		8	230		30	0.8				181	
8-12-71 5050		---	---	2.50	1.15	1.61		0.27	3.77		0.85	0.01					
1025 5050				47	22	31											
14S/02E-05P02 M	74	8.5	646	52	16	59		8	169		70	3.5				194	
8-11-71 5050		---	---	2.59	1.32	2.57		0.27	2.77		1.97	0.06					
1105 5050				40	20	40											
14S/02E-14N01 M	--	8.3	611	48	16.8	53		0	209		63	3.7				189	
3-25-71 5050		---	---	2.40	1.38	2.31			3.43		1.78	0.06					
1455 5050				39	23	38											
14S/02E-14N01 M	64	8.1	615	53	18	51		0	205	45	72	4.1				208	
8-11-71 5050		---	---	2.64	1.48	2.22			3.36	0.94	2.03	0.07					
0840 5050				42	23	35			52	15	32	1					
14S/02E-22P02 M	60	8.3	619	50	15.1	54		0	173		44	0.0				187	
3-24-71 5050		7.3	675	2.50	1.24	2.35			2.84		1.24						
1450 5050				41	20	39											
14S/02E-25D01 M	62	8.3	687	66	19.2	54		0	192		47	1.9				244	
3-24-71 5050		7.8	720	3.29	1.58	2.35			3.15		1.33	0.03					
1545 5050				45	22	33											
14S/02E-25F01 M	58	8.2	1570	124	48.9	136		0	310	238	250	13				511	
3-24-71 5050		7.6	1550	6.19	4.02	5.92			5.08	4.95	7.05	0.21					
1610 5050				38	25	37			29	29	41	1					
14S/02E-26C01 M	61	8.3	912	90	30.7	63		0	217		101	2.6				351	
3-25-71 5050		7.2	950	4.49	2.52	2.74			3.56		2.85	0.04					
1445 5050				46	26	28											
14S/02E-26C01 M	66	8.1	729	75	20	52		0	198		70	2.0				270	
8-11-71 5050		---	---	3.74	1.64	2.26			3.25		1.97	0.03					
1600 5050				49	21	30											
15S/02E-02Q01 M	66	8.1	1470	176	54	86		0	532		109	0.0				660	
8-11-71 5050		---	---	8.78	4.44	3.74			8.72		3.07						
1415 5050				52	26	22											
15S/02E-12C01 M	60	8.3	940	101	35.4	51		0	272		75	0.0				398	
3-25-71 5050		7.3	875	5.04	2.91	2.22			4.46		2.12						
1040 5050				49	29	22											
15S/02E-12C01 M	68	8.2	1030	119	41	51		0	295		90	0.3				468	
8-11-71 5050		---	---	5.94	3.37	2.22			4.84		2.54	0.00					
1300 5050				52	29	19											
SEASIDE AREA 3-04.08																	
14S/01E-24K01 M	--	7.7	743	49	18.6	67		0	97		122	77				199	
10-09-70 5050		---	730	2.45	1.53	2.91			1.59		3.44	1.24					
0700 5050				36	22	42											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number Date Lab Time Sampler	Temp.	pH Lab Field	EC Lab Field	Mineral Constituents in				Milligrams per Liter Milliequivalents per Liter Percent Reactance Value					Milligrams per Liter				
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS SUM	TH NCH
SEASIDE AREA 3-04.08 (Continued)																	
14S/01E-24Q04 M	--	7.3	1390	71	52.7	114		0	19		226	262					394
10-09-70 5050	---	---	1350	3.54	4.33	4.96			0.31		6.37	4.22					
1000 5050				27	34	39											
14S/01E-25L01 M	--	7.7	472	17	13.0	51		0	40		105	21					96
10-09-70 5050	---	---	460	0.85	1.07	2.22			0.66		2.96	0.34					
0730 5050				20	26	54											
14S/01E-25P01 M	--	7.5	602	33	15.7	57		0	66		96	74					147
10-09-70 5050	---	---	590	1.65	1.29	2.48			1.08		2.71	1.19					
0900 5050				30	24	46											
14S/01E-25P02 M	--	7.5	550	22	17.3	52		0	30		102	54					126
10-09-70 5050	---	---	530	1.10	1.42	2.26			0.49		2.88	0.87					
0840 5050				23	30	47											
MISCELLANEOUS AREA 3-80.00																	
19S/01E-08C01 M	--	7.8	743	34	20	54	0.6	0	154	36	74	13			0.0	313	169
3-04-71 5050	---	---	---	1.70	1.64	2.35	0.02		2.53	0.75	2.09	0.21					
-- 5050				30	29	41	0		45	14	37	4					

TABLE E-2

TRACE ELEMENT ANALYSES OF GROUND WATER

State Well Number	Date Sampled	Constituents in Milligrams per Liter					
		Arsenic	Barium	Cadmium	Lead	Mercury	Selenium
SAN FRANCISCO BAY REGION 2-00.00							
SANTA CLARA VALLEY 2-09.00							
EAST BAY AREA 2-09.01							
04S/01W-27B04M	6-11-71	0.00	0.1	0.00	0.00	0.0004	0.01
04S/01W-27F01M	6-11-71	0.00	0.2	0.00	0.00	0.0000	0.00
04S/01W-27K01M	6-10-71	0.00	0.1	0.00	0.00	0.0000	0.00
04S/01W-30E03M	6-04-71	0.00	0.3	0.00	0.00	0.0000	0.00
04S/02W-14P02M	5-26-71	0.00	0.5	0.00	0.00	0.0000	0.01
04S/03W-13B02M	5-26-71	0.00	0.1	0.00	0.00	0.0001	0.00
05S/01W-01R01M	5-26-71	0.00	0.2	0.00	0.00	0.0000	0.00
05S/01W-17A01M	5-25-71	0.00	0.1	0.00	0.00	0.0000	0.00
05S/02W-01N01M	5-25-71	0.00	0.2	0.00	0.00	0.0000	0.00
SOUTH BAY AREA 2-09.02							
06S/01E-17G05M	6-11-71	0.00	0.1	0.00	0.00	0.0000	0.00
08S/01E-04M01M	6-11-71	0.00	0.1	0.00	0.00	0.0000	0.00
08S/01E-08P03M	6-14-71	0.00	0.0	0.00	0.00	0.0000	0.00
08S/01E-20Q01M	6-11-71	0.00	0.1	0.00	0.00	0.0001	0.01
08S/01E-27C01M	6-11-71	0.00	0.1	0.00	0.00	0.0000	0.00
08S/01E-27G01M	6-11-71	0.00	0.1	0.00	0.00	0.0000	0.00
08S/01E-36M02M	6-14-71	0.00	0.1	0.00	0.00	0.0000	0.00

Appendix F: WASTE WATER



INTRODUCTION

This appendix contains data on the volume and location of waste water discharged by 81 cooperating dischargers within the jurisdiction of the California Regional Water Quality Control Board, San Francisco Bay Region, and located in the Central Coastal Area. Data are presented for the period October 1, 1970, through September 30, 1971.

During the 1971 water year, the 81 dischargers released 880 thousand acre-feet of water, or an average of 786 million gallons per day, at 96 disposal plants.

TABLE F-1

QUANTITY OF WASTE WATER DISCHARGED,
CENTRAL COASTAL AREA, 1971 WATER YEAR

Discharger	Average Discharge Rate (mg/d)	Volume Discharged (acre-feet)	Place of Discharge for Waste Water
Allied Chemical Corporation			
Nichols Plant	3.4*	3,808*	Suisun Bay
Richmond Plant	0.1*	112*	Castro Creek
Alviso, City of	0.2*	224*	San Francisco Bay
Basalt Rock Company			
Napa	0.2*	224*	Napa River
Petaluma	0.04*	45*	Petaluma River
San Rafael	0.6*	672*	San Pablo Strait
Benicia, City of	1.0	1,120	Carquinez Strait
Burlingame, City of	3.0*	3,360*	San Francisco Bay
C & H Sugar Refinery	25.6	28,676	Carquinez Strait
Calistoga, City of	0.3	336	Napa River
Central Contra Costa Sanitary District	24.1*	26,995	Suisun Bay
Chevron Chemical Company, Richmond	0.2	224	San Pablo Bay
Colgate Palmolive Company	0.9*	1,008*	San Francisco Bay
Concord, City of	5.1	5,713	Walnut Creek
Contra Costa County Sanitation District No. 7A	0.9	1,008	Suisun Bay
Crockett-Valona Sanitary District	0.3	336	Carquinez Strait
Dow Chemical Company, Western Division	24.4*	27,331*	New York Slough
East Bay Municipal Utility Dis- trict, Special District No. 1	84.1	94,204	San Francisco Bay
Estero Municipal Improvement District	1.3*	1,456*	San Francisco Bay
Fairfield-Suisun Sewer District	4.2	4,705	Suisun Slough
Granada Sanitary District	0.2	224	Pacific Ocean
Guadalupe Valley Municipal Improvement District	0.2*	224*	Guadalupe Canal
Half Moon Bay, City of	0.3*	336*	Pacific Ocean
Hayward, City of	11.9	13,330	San Francisco Bay
Hercules, Incorporated	1.6	1,792	San Pablo Bay and Land
Humble Oil and Refining Company	3.4	3,808	Suisun Bay

TABLE F-1 (Continued)

QUANTITY OF WASTE WATER DISCHARGED,
CENTRAL COASTAL AREA, 1971 WATER YEAR

Discharger	Average Discharge Rate (mg/d)	Volume Discharged (acre-feet)	Place of Discharge for Waste Water
Las Gallinas Valley Sanitary District	2.3	2,576	Miller Creek
Livermore, City of	3.2	3,584	Arroya Las Positas
Los Altos, City of	2.3	2,576	Mountain View Slough
Marin County Sanitary District No. 1	3.4	3,808	Corte Madera Creek
Marin County Sanitary District No. 6			
Ignacio Plant	0.7	784	Novato Creek
Novato Plant	2.3	2,576	Novato Creek
Martinez, City of	1.8*	2,016*	Carquinez Strait
McGraw Hill Company	0.02	22	Pond
Menlo Park Sanitary District	6.0*	6,721*	West Point Slough
Merck & Company, Inc.	5.1*	5,713*	San Francisco Bay
Mill Valley, City of	2.3	2,576	Richardson Bay
Millbrae, City of	2.4	2,688	San Francisco Bay
Milpitas Sanitary District	2.9	3,248	Coyote Creek
Montara Sanitary District	0.2	224	Pacific Ocean
Mountain View, City of	7.4	8,289	Mountain View Slough
Mountain View Sanitary District	0.9	1,008	Carquinez Strait
Napa County Sanitation District	5.4	6,049	Napa River
North San Mateo County Sanitation District	4.0	4,481	Pacific Ocean
Oro Loma Sanitary District	13.6	15,234	San Francisco Bay
Pacific Union College	0.2	224	Conn Creek and Land
Pacifica, City of			
Linda Mar Plant	1.4	1,568	Pacific Ocean
Sharp Park Plant	1.0	1,120	Pacific Ocean
Palo Alto, City of	13.3	14,898	San Francisco Bay
Petaluma, City of	2.7	3,024	Petaluma River
Phillips Petroleum Company, Avon Refinery	14.3	16,018	Suisun Bay
Pinole, City of	0.9	1,008	San Pablo Bay

TABLE F-1 (Continued)

QUANTITY OF WASTE WATER DISCHARGED,
CENTRAL COASTAL AREA, 1971 WATER YEAR

Discharger	Average Discharge Rate (mg/d)	Volume Discharged (acre-feet)	Place of Discharge for Waste Water
Pittsburg, City of			
Camp Stoneman Plant	0.9	1,008	New York Slough
Montezuma Plant	1.3	1,456	Sacramento River
Pleasanton, City of	1.1*	1,232*	Land
Redwood City, City of **	6.5*	7,281*	Redwood Creek
Richardson Bay Sanitary District	0.2	224*	Raccoon Strait
Richmond, City of	8.1	9,073	San Francisco Bay
Rodeo Sanitary District	0.6*	672*	San Pablo Bay
St. Helena, City of	0.4	448	Napa River
San Carlos-Belmont, Cities of **	3.3	3,696	Steinberger Slough
San Francisco, City and County of			
Juvenile Court - Log Cabin Ranch School	0.02	22	Land
North Point Plant	65.5	73,369	San Francisco Bay
Richmond-Sunset Plant	21.0	23,523	Pacific Ocean
Southeast Plant	22.6	25,315	Islais Creek
San Francisco International Airport	0.9*	1,008*	San Francisco Bay
San Jose, City of	81.0	90,731	Coyote Creek
San Leandro, City of	7.1	7,953	San Francisco Bay
San Mateo, City of	11.8*	13,218*	San Francisco Bay
San Mateo, County of			
Boys Ranch	0.005	6	Pond
Honor Ranch No. 1	0.01	11	Land
San Pablo Sanitary District			
San Pablo Plant	7.9	8,849	San Pablo Bay
Tara Hills Plant	1.2	1,344	San Pablo Bay
San Quentin Prison	0.6	672	San Francisco Bay
San Rafael Sanitation District			
Main Plant	2.8	3,136	San Francisco Bay
Marin Bay Plant	0.1	112	San Francisco Bay
Sausalito-Marín City Sanitary District	1.9	2,128	San Francisco Bay
Sequoia Refining Corporation	0.1	112	San Pablo Bay

TABLE F-1 (Continued)

 QUANTITY OF WASTE WATER DISCHARGED,
 CENTRAL COASTAL AREA, 1971 WATER YEAR

Discharger	Average Discharge Rate (mg/d)	Volume Discharged (acre-feet)	Place of Discharge for Waste Water
Shell Chemical Company, Pittsburg Plant	6.4	7,169	Suisun Bay
Shell Oil Company	4.5*	5,041*	Carquinez Strait
Sonoma Valley Sanitation District	2.1	2,352	Schell Slough
South San Francisco-San Bruno, Cities of	7.8*	8,737*	San Francisco Bay
Standard Oil Company, Western Operations, Richmond Refinery	114.0	127,696	San Pablo Bay
Stauffer Chemical Company			
Martinez Plant	0.1	112	Carquinez Strait
Richmond Plant	1.3*	1,456*	San Francisco Bay
Strategic Consolidated Sewerage Authority **	1.9	2,128	San Francisco Bay
Sunnyvale, City of	14.4	16,130	Guadalupe River
U. S. Steel Corporation, Pittsburg Plant	17.8	19,938	New York Slough
U. S. Veterans Administration Hospital, Livermore	0.1	112	Arroyo Valle
Union Oil Company, Oleum Refinery	48.9	54,775	San Pablo Bay
Union Sanitary District			
Newark Plant No. 1	5.5	6,161	Newark Slough
Irvington Plant No. 2	5.1	5,713	Mud Slough
Alvarado Plant No. 3	2.2	2,464	Alameda Creek
United Technology Center	0.05	56	Land and Pond
Vallejo Sanitation and Flood Control District	6.9	7,729	Carquinez Strait
Valley Community Services District	2.4	2,688	Alamo Canal
TOTAL	785.945	880,360	

* Estimated

** The City of Redwood City and Cities of San Carlos-Belmont plants combined on August 1, 1971, to form the Strategic Consolidated Sewerage Authority.

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